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OUR DIARY FOR 1895.

WE shall close for press in about a fortnight, and that leaves none too much time for advertisers to prepare their announcements, and get proofs of them passed for printing. It will be an obligation to us if they would give their instructions immediately. The literary portion of the DIARY is already in type. If there is any truth in the saying that the better the literary matter the better the results to the houses who advertise along with it, then the 1895 DIARY should bring them in an abundant harvest. But our experience is that the advertisements are used as a sort of trade Reference-Book all the year round. The Buyers' Guide, which is compiled from all the advertisements, makes the DIARY particularly valuable in that direction. Advertisers will note that the DIARY is presented free to every subscriber in the British Isles and colonies and to all in the foreign countries, which means that in many thousands of pharmacies and business offices throughout the whole world the DIARY is used daily. That is why it pays to advertise in it.

POSTCARD COMPETITION.

OCTOBER.

WE ask this month for designs for

A CHEMIST'S WINTER WINDOW,

and we offer a double prize—namely, one guinea for the best drawing, and one guinea for the best idea. There is no reason why the same competitor should not win both prizes; but we separate them so as to give the artists and those who are not skilful with the pencil equal chances. Sketches may be sent on plain white cards and enclosed in envelopes, but all other cards in competition must be on ordinary postcards. All subscribers, their employés, and families are eligible to compete, and October 31 is the last day on which cards can be received.

Summary.

Two druggists have been fined at Dumfries for selling cassia when cinnamon was asked for and the price of cassia raid (p. 554).

THE new edition of Watts's "Dictionary of Chemistry" has been completed by the publication of the fourth volume, upon which we comment (p. 549).

THE dispute between employers and employes in the bottle-making industry is still in progress. Masters and menhave met without agreeing (p. 535).

Mr. C. B. Allen, of Kilburn, on Thursday opened the session of the Sheffield Chemical and Pharmaceutical Society with an address which we report (p. 540).

MR. GUNN describes a simple arrangement for clearing elloroform and alkaline mixtures in the estimation of einchona and other alkaloidal drugs (p. 552).

THE Pharmaccutical Society have proceeded against several shopkeepers in Wandsworth for selling poisons, and in most cases the penalties were paid into court (p. 553).

WE give some interesting particulars regarding the export of spirituous preparations under the drawback regulations, showing that the quantity exported is increasing (p. 551).

In an interview with the partners of Newball & Mason, Nottingham, some interesting particulars of the growth of the extract of herbs trade and the power of advertising are given (p. 544).

WE had an excellent response in our August postcard competition, which enables us to give this week three pages of "Wrinkles for the Dispensing-counter" with many illustrations (p. 545).

WE print the questions given at the Pharmaceutical Preliminary examination on Tucsday; also the names of those who have passed the Major examination in London and the Major and Minor in Edinburgh (p. 539).

HICKS & Co. (LIMITED), of Cardiff, have been proceeded against under the Shop-hours Act in respect to two employés under 18. The offence was non-exposure of the notice required by the Act (p. 555).

THE Inland Revenue report for last year shows that the revenue from patent-medicine stamps is still on the decline. We give a diagram which traces the fluctuations in the patent-medicine trade since 1860 (p. 548).

OPIUM is advancing with an excited market; star anise oil has touched a higher price than has been known for some years, and special attention may be directed to remarks or bismuth and caffeine in the Trade Report (p. 557).

THERE is some doubt in the mind of correspondents regarding the dispensing of Fellows's syrup, and kindred preparations, in the entire state. The necessity for stamping is referred to in our correspondence section (p. 562).

MR. BRUNNER, of the firm of Brunner, Mond & Co. (Limited), has made some noteworthy statements in favour of an eight-hour system. The records of his company show a distinct improvement in the health of their workmen since it has been adopted (p. 551).

The reconstituted Irish Pharmaceutical Council met last week and re-elected the retiring office-bearers, Mr. Wells having declined the presidency (p. 538). Messrs. Duggao and Lees replace Mr. Boyd and Dr. Burnes (both of whom have retired) on the Council (p. 536).

A CORRESPONDENT, who is a pharmaceutical chemist and, a chemist in a manufacturing laboratory, has been refused exemption from jury service. The curious point about the matter is that the Secretary of the Pharmaceutical Society supports the magistrates in their decision (p. 551).

MR. A. H. ALLEN, in his report as public analyst for the West Riding, calls attention to the want of recognised authority or standards for certain pharmaceutical preparations (p. 534). In this connection we suggest that the Research Laboratory of the Pharmaceutical Society should supply the want (p. 550).

English Rews.

The Editor is obliged to correspondents who send local newspapers containing tisms of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Poisoning by Noxious Gas.

An inquest was held at Bristol, on October 4, concerning the death of George Freak, 27, labourer, employed in the sulphide process at Netham Chemical-works, belonging to the United Alkali Company. Jesse Windsor, foreman at the works, said that deceased had been employed there several years, and was a careful and reliable workmau. On the evening in question he began work at 5 o'clock, and at ten minutes to 6 a Boots blower was started by the deceased. Shortly after 7, witness saw that the blower had stopped. Deceased was not there, so he went and asked him if he knew the blower had stopped. Deceased replied that it must have stopped of its own accord, and he went to re-start it. Ten minutes later, finding it had not been re-started, he went back to the hut and saw deceased sitting on the ground. There was a smell of gas, and he saw that he was senseless, and carried him into the middle of the road. A doctor was seut for, and efforts were made to restore breathing, hut they were of no avail. When the engine stopped the gas escaped, and before re-starting it deceased should have turned a valve, which he probably did not take the precaution to do. Further evidence was given, and attention called to a puncture over the eye, which had not been noticed, and the Coroner adjourned the inquest until October 10 for a postmortem examination to be made.

Introducing a Client.

In the City of London Court, on October 5, before Mr. Commissioner Kerr, an action was brought by Mr. W. S. Young, solicitor, 101 Leadenhall Street, E.C., against Mr. Chas. Lamb, chemical merchant, Mark Lane, E.C., to recover the sum of 3l. 14s. 8d. for professional services rendered at his instance. The defendant denied having employed the plaintiff, or that he had pledged his personal liability. The plaintiff said that in March, 1892, the defendant called on him, and said he had an interest in a gentleman named Prim who wanted legal assistance. Prim was in debt, and defendant asked him (plaintiff) to arrange the matter with the creditors. This he did, treating the defendant as his client, and the matter was satisfactorily settled up. But the defendant now declined to pay. The defendant said the plaintiff should look to Prim. He introduced the plaintiff to Prim, who wanted a solicitor, but he never thought he was going to be asked to pay the bill. He certainly did not intend to make himself responsible. Mr. Commissioner Kerr, after reading the correspondence, said there was no doubt that the defendant had made himself liable, and he found for the plaintiff for the amount claimed.

Corrosive-sublimate Poisoning.

On February 13 last, a Polish Jew, named Greenbirt, visited the shop of Mr. Stephen Steele, chemist and druggist, Southminster, and purchased ½ oz. of corrosive sublimate, commonly known as "stone mercury," and stated that he wanted it for dressing sheep. He signed the poison-book. Last Saturday the man was found dead in his house, and a post mortem showed that death was due to the poison.

Wine-lieenees.

Off-licences have been granted to Mr. Wellington, chemist and druggist, Taunton; Mr. J. M. Skinner, chemist and druggist, High Street, Bromley; and Messrs. Felce & Co., chemists, High Street, Bromley.

A Cow in a Chemist's Shop.

On Tuesday afternoon, October 2, a cow, which with others was being driven from the market, broke from the rest and bolted into the shop of Mr. Rogers, Newton Abbot. The unexpected customer walked through the shop into the hall, whence it was quietly but promptly ejected by the front door. Only a slight amount of damage was done in the shop.

The Half-holiday.

The chemists and druggists of Southend have joined with the other tradesmen of the town in adopting earlier closing. It has been decided to suspend business each Wednesday afternoon at an early hour, and at 7 P.M. on Mondays, Tuesdays, Thursdays, and Fridays. The arrangement commenced on October 10 and expires early in April.

At Margate the chemists of the town have inaugurated the winter early closing, the shops being closed at 5 P.M. each Thursday. A similar scheme has been adopted at Westgate-

on-Sea.

The crisis that has arisen at Wimbledon in respect to the Wednesday 2 o'clock closing has been successfully passed, the dissentient tradesmen having been induced to revert to the 2 o'clock closing.

Adulterated Sal Volatile at Sheffield.

During last quarter Mr. A. H. Allen, Analyst for the city of Sheffield, had submitted to him for analysis by inspectors and private purchasers 87 samples. Of these 58 were samples of milk, 39 of which were genuine, and some of the others were of suspiciously poor quality. On the whole the results showed a general improvement in the quality of the milk, but could not be regarded as wholly satisfactory. Six samples of medicine were found to be dispensed in accordance with the prescription. Three samples of paregoric proved to be genuine. Of 3 samples of sal volatile 1 was genuine; a second was of somewhat inferior quality, probably owing to natural deterioration; while the third contained not more than three fourths of the ammonia and carbonate of ammonia required by the British Pharmacopœia to be present in the preparation. Against the vendor of this sample proceedings have been ordered to be taken. Two samples of tincture of rhubarb were found to be of fairly good quality, while a third was of inferior quality.

Mr. A. H. Allen on the Analysis of Drugs.

In his report to the West Riding County Council for the second quarter of 1894, Mr. A. H. Allen, Analyst to that body, after giving particulars as to the number of samples dealt with, says:—"In many instances the sample has scarcely come within the scope of the existing legislation. An instance of this is to be found in extract of malt. The sample undoubtedly consisted of an extract of malt, but there being no legal or authoritative description of the strength, activity, or nutritive value of such a preparation, it is impossible for a public analyst to express an opinion as to the character of the sample. Where an article is a drug purchased under a name identical with that of a preparation described in the British Pharmacopogia, it may fairly be held that it should he of the quality and strength of the official preparation, though even this is not laid down by any Act of Parliament. The importance of having such medicinal preparations as are sold under definite names of approximately constant strength and activity makes any departure from the official composition inexcusable, whether it be in the direction of excess or of deficiency. Thus, there exists in the British Pharmacopæia a preparation known as 'sulphur lozenges,' each one of which is directed to contain 5 grs. of sulphur. But one of the lozenges, forming a portion of a sample submitted to me, contained 11 grs. of sulphur, while a second contained 9 grs., thus averaging twice the amount contained in the sulphur lozenges of the British Pharmacopoeia. It appears to be a common practice to sell tinctures deficient in alcohol. This may be due to two causes. Either the tincture may have been prepared with spirit of less than the proper strength, which involves a risk of incompletely extracting the active ingredients of the drugs; or, a normal tincture having been prepared, the retailer has economised by adulterating it with water. A good sample of such sophistications is afforded by tincture of rhubarb, fifteen samples of which have been examined during the past quarter. Of these six were found to he in fair accordance with the requirements of the British Pharmacopæia, and four were of inferior quality, but not sufficiently bad to justify my giving a strongly adverse certificate. One was prepared with spirit of deficient strength, and, in addition, was destitute of saffron, which is an expensive ingredient, and is directed by the British Pharmacopæia to be used in the proportion of $\frac{1}{4}$ oz. to the

Two other samples were deficient botli in extractive matter and alcohol, probably dne their adulteration with water, and two were similarly deficient, and, in addition, destitute of saffron. As an illustration of the difficulties under which public analysts work I may say that the British Pharmacopicia, while defining the ingredients of tincture of rhubarb, and the strength of spirit to be used in its preparation, gives no tests by which a pre-paration properly made can be recognised. Further, on my recently applying to Mr. Bannister, one of the official referees under the Sale of Food and Drugs Act, he professed his utter inability to give me the least assistance in laying down standards or limits of composition for tineture of rhubarb, or any information respecting the practice in the laboratory of which he is the deputy-principal. In order to adequately examine the samples of tineture of rhubarb submitted to me, it has been necessary for me to prepare and purchase a number of such preparations, and devise a method for their examination and analysis with a view of comparing authentic tinetures with those submitted to me by the inspectors. I have thus acquired eonsiderable information on the subject, but am, of course, liable to have my certificates contradicted at any moment by appeal to the chemists at Somerset House, who may base their opinion upon wholly different data. Similarly I recently collated the results of analyses of 104 specimens of ground ginger, 70 of which were analysed in my own laboratory, and, as a result of those analyses, obtained an unprecedented amount of information respecting the composition of ginger, which enabled me to condemn a sample for containing 5 per cent. of sand and extraneous mineral matter, but, my certificate being disputed, the sample was sent to Somerset House. The referees confirmed the presence of sand, but said that the proportion found was not in excess of that which was sometimes met with in ginger-root ground as imported, and not previously washed. As a matter of faet, the other results of my analysis showed the sample in question had been washed, but the refeeres do not appear to have studied this point, and as a result the case was dismissed. As a consequence of the position taken by the referees, it will be possible in future to add 5 per cent. of warehouse-sweepings or other rubbish to all ground ginger." This report was presented at the Council meeting held on Wednesday, October 10.

Death Five Days after Phosphorus Paste.

Louisa Jay, aged 24, a domestic servant, died in Holloway Prison, where she had been placed for attempting suicide. Mr. G. E. Walker, the medical officer to the goal, said the deceased had taken rat-poison five days before, and in reply to a juryman explained that phosphorus aets very peculiarly at times; it may prove fatal the first day it is taken, but frequently no ill effects are observed in the patient until four or five days, when he or she may become comatose, and die in a mysterious manner.

Was the Phenyle the Poison?

On October 8 an inquest was held at Hull respecting the death of Miss Christiana O'Donoghue, aged 27, daughter of Mr. D. J. O'Donoghue, Clerk to the Hull School Board, who died on Sunday night. The Deputy-Coroner, in addressing the jury, stated that a bottle labelled "Little's Phenyle—Poison" was found under deceased's bed, but at present it eould not be stated whether a portion of that taken by deceased had caused death. The brother of deceased deposed to his sister's depression for some time past. The bottle of pheryle found under her bed had been in the house some years. In one of the wash-basins in deceased's room there was a tumbler smelling strongly of carbolic acid. During her depression she had never been heard to threaten her life. Drs. Lamb and Wilson deposed to being ealled to deceased on Sunday morning, when she was suffering from nareotic poison, but, although they stayed with her all day, she died at 5.30 the same evening. Their opinion after the postmortem was that deceased died from poison, which had been absorbed into the system, leaving no perceptible trace. In answer to the foreman, both medical gentlemen stated their opinion that the fluid in the bottle was poisonous. The Deputy-Coroner remarked that Mr. Bridges, ehemist to the company who prepared the phenyle, was present, and he would ask that gentleman to take the remainder of the liquid in the bottle for the purpose of analysis. Should he discover that ing employés of Goodall, Backhouse & Co., Leeds, took place

it contained any poison, he would ask that the company should modify their advertisements in the papers. A verdict that the deceased committed suicide by taking poison whilst of unsound mind was returned.

The Bottle-industry.

On Saturday last incetings of the men engaged in the glass-bottle trade were held throughout the manufacturing districts of Yorkshire, to consider the present state of affairs. The proposals of the masters were laid before the meetings, but nothing definite was arrived at. The men were of opinion that the masters would place before them a considerable modification of the proposals at present made, which would mean a reduction of about 6s. per week to the men on their ordinary wages and 25 per eent. less for overtime. The masters say these reductions will have to be made before they can meet their competitors in France, Germany, and Belgium on equitable terms; and whilst the men are of opinion that they ought to make some reduction in their wages, they are not prepared to accept the termssuggested.

An adjourned conference between the representatives of the Yorkshire Bottle-manufacturers' Association and the representatives of their employés took place on Monday, October 8, at the Bull Hotel, Wakefield, under the presidency of Mr. Caleb Kilner, of Conisbro. Both sides were well represented. The proceedings were of a private nature, but it is understood that the representatives of the men declined to accept the terms offered by the masters on the previous oceasion. The representatives of the employers thereupon modified their proposals, and the conference was again adjourned, to enable the men to discuss the fresh proposals.

Technical Institute at St. Helens.

Colonel Gamble laid the foundation-stone at St. Helens. last week, of an institute which is to form a central library and reading room and a school for technical education and manual instruction. He has given the site, and will spend 20,000l. on the building.

Drug-contracts.

The Portsmouth Town Council have accepted the following tenders for one year:—Messrs. Sadler & Co., for commercial liquid carbolic acid and chloride of lime; Mr. Timothy White, for carbolic powder, sanitas oil, Jeyes' perfect purifiers, oil of vitriol, and roll sulphur; Mrs. Charles Groom, for sanitas powder and perchloride of mercury; Messrs. McDougall Brothers, for Nos. 3, 4, and 5 carbolic acid. Sixteen firms sent in tenders.

The Cireneester Guardians have accepted the following tenders for the ensuing quarter: -Mr. J. Paternoster, chemist and druggist: Howard's quinine, 2s. per oz.; eod-liver cil, 5s. 6d. per gallon; easter oil, 9d. per pint. Messrs. Moulder & Arnold: Arrowroot, 8d. per lb.; su!phur, 2d. per lb.

The Peterborough Guardians have accepted the tender of Mr. H. Noble, ehemist and druggist, for the supply of quinine at 1s. 5d., and for cod-liver oit at 4d. per 8 oz.

The Guardians of the Durham Union have accepted the

tender of Messrs. Mason & Co., chemists, Sadler Street,

Durham, for the supply of syphons of soda water.

The Belper Guardians have accepted the contract of Mr.

C. W. Southern, chemist and druggist, Belper, for the supply of drugs, &e.

The Ashford (Kent) Local Board have appointed Mr. W. P. Forth, Bank Street, Ashford, as ehemist and druggist to

the Board for the ensuing half-year.

Mr. W. Martin, ehemist, of 112 High Street, Southampton, has secured the contract for the next six months for the Southampton Board of Guardians.

Carbolic-acid Poisoning.

On October 7, John Jones, of High Street, Mold, was found lying dead in the garden at the back of the house. Au empty bottle bearing the name and address of a Manchester chemist, and which had contained carbolic acid, was found by him. Death had evidently resulted from drinking the acid.

Chemists at Cricket.

at Kirkstall on Saturday, October 6. The teams, representing the warehouse and works, were respectively captained by Messrs. Pearson and Broadbent. The former took first innings, and, thanks principally to one batsman, ran up the respectible total of 87, though six of them left the wickets without broubling the scorer. Time prevented the other side from completing their innings, but they had made 23 for three wickets. After the match players and friends, to the number of 50, adjourned to the Star and Garter Hotel, and after a good meal, spent the evening very pleasantly in speeches, songs, and music.

Poisoned by Sheep-dip.

An inquest was held at Llanshangel Pontymoil, near Pontypool, on October 9, tonching the death of Mary Ann Davies, aged 57 years, wife of Francis Davies, farmer. On September 28 deceased took a quantity of sheep-dip. A loctor was sent for, but she refused to let him apply the tomach-pump, saying she wanted to die, and force had to be used. The poor woman, however, died on October 7. A verdict of temporary insanity was returned.

Frish News.

Election of Council.

There was no contest for the Conncil of the Pharmaceuical Society of Ireland this year. Messrs. S. P. Boyd and Dr. Burnes had retired, and their seats were filled by the nomination of Mr. Robert Duggan, 6 Duke Row, Summerhill, Dublin, and Robert M. Lees, Main Street, Wicklow.

Drug-contracts.

Mr. T. R. Connolly, M.P.S., Dundalk, has secured the conract for medicines to be supplied to the Dundalk Union.

At a meeting of the Bandon Board of Guardians, on October 3, the question of the contract for supplying drugs o the Union came up. It had been decided to give the conract to Messrs. Harrington, of Cork, instead of to Messrs. Kiloh, of Dublin, though the tender of the latter was lower, on the ground that Messrs. Harrington were the former contractors, and large employers of local labour. Vice-Chairman (Mr. Clear) said lie had received a letter from the solicitors of Messrs. Kiloh asking for an explanation of words used by him at the former meeting that there were arregularities in the delivery of medicines to the Union while they were contractors. This Messrs. Kiloh emphatically denied, and said that Mr. Clear had made the remarks in order to give the Local Government Board some semblance of excuse for the action of the Guardians in ignoring Messrs. Kiloh's tender and accepting a higher one. They further called on him either to substantiate or withdraw his remarks. He (Mr. Clear) said he found that the irregularities were not in the supply of drugs, but in the invoices supplied, and beyond that he could not go. The Chairman said a more ancalled-for letter had never been written during his experience as Chairman of the Board. Several Guardians spoke in favour of the contract being rescinded and given to Messrs. Kiloh as the lowest tenderers; but on the Vice-Chairman saying that he considered this a personal insult, and would resign, if persisted in, the motion was withdrawn, and it was resolved nitimately to approve of the action of the Guardians in accepting Messrs. Harrington's tender, and to condemn the letter of Messrs. Kiloh as unjust and unwarrautable.

A Dispenser's Salary.

At a meeting of the Cork Board of Guardians, on September 28, a motion to increase the salary of Mr. Dowling, apothecary to the Tralee Dispensary, from 20l. to 40l., was considered. Considerable wrangling too's place, one Guardian saying that the increase would be a bad precedent, and that his constituents expected him to keep down expenditure of every kind. The committee had unanimously voted the increase, but eventually the matter was compromised by increasing the amount to 30l.

The Employers' Liability Act.

An action was brought in the Belfast Recorder's Conrt on October 2, by William Heatley, artisan, against Messrs. James Beck & Son, chemical-manufacturers, of Belfast, to recover 1001. damages for personal injuries received in defendants' works on July 11, 1894, due to defects in the plant and negligence on the part of persons in the defendants' employ. The plaintiff said that his duties were to pour ont nitrate of soda npon a metal plate, and, after allowing it sufficient time to harden, to break it up with a pickaxe. On the day in question, after allowing more than sufficient time for the material to harden, he proceeded to strike it with a pickaxe, when a quantity of the liquid splashed out about him, burning him severely, and destroying the sight of one of his eyes. He alleged there was a crack in the side of the kiln, through which the liquid poured with a constant drop, and but for this defect the liquid would have become solidified. The plaintiff admitted in cross-examination that he had seen this crack, and had seen the liquid pouring out, but notwithstanding that he proceeded to strike. The case for the defence was that the plaintiff had not acted with diligence and proper care in the execution of his duty, and that there was no deficiency in the plant or machinery. The Judge took this view of the case, and dismissed the case on its merits.

Getting On.

The Irish Pharmaceutical Society have now almost 1,000*l*. in bank, in addition to owning the house where they meet.

Business Change.

Mr. John Smith, M.P.S.I., of Messrs. Evans's, 49 Dawson Street, Dublin, has purchased the business lately carried on at Rathgar by Mr. F. J. Neade, M.P.S.I.

"Found Drowned"

was the verdict of the Coroner's jury on the body of Wm. B. Cruikshank, manager of Messrs. Thacker & Hoffe (Limited), wholesale druggists, Dublin, which was washed ashore at Wexford last week. Mr. Cruikshank had been missing for a month previously, and his friends believe he fell overboard from the Glasgow steamer when returning from a holiday in Scotland.

Scotch News.

A Druggist Charged with Assault.

William Macdonald, druggist, College Street, Edinburgh, was arrested on Sunday on a charge of having assanlted John Clark, coachman, Morrison Street, with a knife on the previous night. Macdonald, it is stated, visited Clark to get an explanation from him of something he had said regarding him. He left apparently satisfied, but returned for his stick, and is then alleged to have assaulted Clark when he gave him the stick. Clark was taken to the Infirmary, and no serious result is anticipated from the wound. Macdonald has been remitted to the Sheriff.

Edinburgh Medical Degrees for Women.

After a struggle which commenced a quarter of a century ago, Miss Sophia Jex-Blake, M.D., has got the Senatus of the Edinburgh University Medical School to remove the last restrictions which prevented women obtaining the medical degrees of the University. Miss Jex-Blake is Dean of the Edinburgh School of Medicine for Women, and the concession has been obtained as regards the students of that school, but it will doubtless apply to other schools which conform to the University's regulations.

A Candidate for Municipal Honours.

Towards the end of last week, Mr. James Gardiner, chemical-manufacturer, Glenogle Road, Edinburgh, announced his intertion of coming forward as a candidate for the representation of St. Giles' Ward in the Town Council of that city, at the November election, as "an Irishman, a Catholic, and a citizen." Mr. Gardiner is a Vice-President of the John Dillon branch of the Irish National League in Edinburgh, and his conduct in making this determination

without consulting the members of the branch was the subject of pretty severo criticism at the meeting of the branch on Sunday last, and a noisy altercation onded in Mr. Gardiner intimating that he had been asked by a number of Irishmen and many Protestants to stand, and that he would do so whatever the John Dillon branch of the Irish National League said; while the Nationalists intimated that they would "sit heavily" on him. Since then Mr. Gardiner has issued his address as an independent candidate for the ward.

Bowling Chemists.

A friendly game at howls was played on Partick howling-green, on Saturday last, by the following members of the trade. After a keen contest, the game ended in favour of the home rink by a narrow majority of two. Visitors—D Houston, J. Walker, Colin Campbell, and J. Lillic (skip)—18. Partick—T. Law, G. Rohertson, R. H. Gordon, and J. McNicol (skip)—20.

french Pharmacentical Rews.

(From our Paris Correspondent.)

THE ANTITOXIN TREATMENT.—At the weekly meeting of the Academy of Medicine on Tuesday afternoon, an inquiry was read from the Minister of the Interior explaining that several Prefects had written from the provinces asking how the anti-diphtheria vaccine could be obtained by country doctors. The Academy seemed a little piqued that its members should have had to learn of the cure through the newspapers, like the most ordinary of mortals, and has informed the Minister that the matter was made public by Dr. Roux at a foreign medical congress, but the Academy has appointed a committee to inquire into the matter.

Poisonous Vine-leaves.—Now that the slight scare produced by cases of poisoning through eating stale lobsters and fish has subsided, a Paris newspaper has tried to strike the key-note of alarm with the following paragraph:—"Vine-leaves are much used in Paris for covering fruit and butter, as well as meat and game that have to be despatched to a distance. But it has just been discovered that this practice is not without danger, since wine-growers have adopted the use of sulphate of copper against mildew. The leaves retain a slight proportion of the copper, which, when brought into-contact with the acid of fruits, forms a violent poison in the shape of acetate of copper. It is important that vine-leaves should be well washed hefore they are used in the manner described." The news is, however, shorn of a good deal of its interest from the fact that most of the leaves used are gathered every morning from plane trees in the woods surrounding Paris. If genuine vine-leaves were used for the purpose, it is probable that the vineyards would be speedily devastated.

The Antiseptic Properties of Formol.—At the meeting of the Paris Academy of Sciences last weck M. Friedel read a paper, hy M. Trillat, concerning experiments that have heen made on an extensive scale with regard to the antiseptic properties of methylic aldehyde vapours (commercial formol). M. Trillat did not use solutions of formol for producing the vapours, hut the producing-apparatus which converts the methylic alcohol directly into formol. He tested his apparatus in rooms varying in size from 20 to 300 cubic metres, the walls having heen covered with germs of very resisting nature at different heights. Various infected articles were also placed in the apartments. The results allowed the conclusion to he formed that the vapours took effect equally well both as regards height and depth. The force of penetration of these vapours appears to he so great that, although they were used to an almost infinitesimal degree, drapery infected with germs was entirely purified, the various septic agents contained in it heing destroyed. Even wood was penetrated to a considerable depth, and M. Friedel drew attention to the fact that similar results could not be obtained by the vapours of any other substance.

EUCHRE-PARTIES are a form of pharmaceutical progress advocated hefore the St. Louis (Miss) Drug-clerks' Society.

Foreign und Colonial News.

A BROOKLYN DRUGGIST has been fined \$100 for kissing a married woman who came into his shop to buy stamps. He "had been in trouble before," says the *Pharmaceutical Era*.

TOO MUCH PHARMACY IN U.S.A.—A contributor to the Michigan Pharmaceutical Association, which met in Detroit three weeks ago, says that there is a pharmacist to every 160 inhabitants of the United States. He also said that it hurt druggists to call themselves members of the A. P. A, for the roason stated in another paragraph in this column.

SULPHUR-MINING IN LOUISIANA.—A New York syndicate are reported to have purchased the sulphur mines near Sulphur City, Louisiava, for \$175,000, and preparations are being made for their development. The sulphur is found at a depth of 180 feet, and it is estimated that the mines contain a thickness of 100 feet solid sulphur of 98 per cent. purity.

No Longer A.P.A.—The American Pharmacentical Association at the recent meeting decided to stop using the initial: A.P.A., as there is a secret religio-political society to which the Association think no respectable person would helong. The secret society uses the same initials, and confusion has arisen to the detriment of the American Pharmaceutical Association and its members.

NEEDLESS Excess.—They must give a lot of laudanum for five cents in Philadelphia, if we may judge from the following facts. An out-of-work went into a druggist's there with his last nickel and got laudanum for it, which he swallowed and ran. The assistant followed, caught him, hrought him hack, and made him swallow an emetic. Not satisfied with that a policeman was brought, and the victim was taken to a hospital where his stomach was pumped out. Poor fellow! he could scarcely have had more than a grain of morphine inside him.

COTTON-OIL REFINING IN CHARLESTON, TEXAS—An important and successful industry was established in Charleston a few years ago, when the Mutual Refining Company commenced the refining of cotton-seed oil. The company was organised in 1891. Its plant is situated within the city limits on the line of the North-Eastern Railroad, and it has excellent facilities for handling its product. So far as the nature of the husiness permits, the refinery has been in continuous operation since the time of its organisation, and the results of its work so far have heen satisfactory to the stockholders.

What is "Temporary Absence"?—Tho Illinois Board of Pharmacy has considered the meaning of the section of the pharmacy law which requires that every drug-store in Illinois must be under the direct charge of a registered pharmacist of Illinois, with the exception that "any assistant pharmacist (of Illinois) shall have the right to act as clerk or salesman in a drug-store or pharmacy during the temporary absence of the owner or manager." The Board has come to the conclusion that "temporary absence" means that the assistant pharmacist may have charge of the store only while the registered pharmacist has gone to his meals or the like, and does not mean that the assistant pharmacist can take charge of the store for a half-day or a day at a time.

Society of Chemical Industry.—A meeting of the New York Section was held in the Board of Trade rooms the last week of September, Mr. Alfred H. Mason presiding It was agreed to hold meetings on the first Monday in each month for the reading of papers, &c. A code of rules was agreed to these heing hased on those of the British branches of the Society. There are three hundred members of the Society in North America. The following are the office-hearers:—Chairman, Alfred H. Mason; Vice-Chairman. Alfred McGeorge. Committee, Marcus Benjamin, T. Lynton Briggs, H. Comer, H. Endemann, Joseph F. Geisler, James Hartford, E. G. Lowe, John McKesson, W. H. Nichols, Francis J. Schleicher, James H. Stebbins, jun., T. B. Stillman. Hon Treasurer, R. C. Woodcock. Hon. Local Sceretary, H. Schweitzer.

Pharmacentical Society of Freland.

COUNCIL MEETING.

THE monthly meeting of the Council was held on October 3, at the Society's House, 67 Lower Mount Street, Dublin. Present: Mr. William Hayes (President) in the chair; Messrs. Beggs (Vice-Presideut), Baxter, Merrin, Conyngham, J. J. Bernard, Wells, Grindley, Professor Tichborne, Lyons, and

Mr. A. T. FERRALL, Registrar, read the minutes, which were confirmed.

THE PRESIDENCY.

The PRESIDENT: Our first business to-day, gentlemen, is the election of honorary officers and committees, and they commence by the election of a President. I have occupied the position for three years in work, and three and a half between work and play. It was about to be my pleasing duty to propose to you as President one who perhaps deserves that position more than any man in our Society of recent years, and I think you will know the man I refer to-Mr. W. F. Wells, jnn. (Hear, hear.) He has worked in connection with this Society in a way which, we all feel, entitles him to the highest honour that can be paid by the Society. (Hear.) I thought I had nothing further to do than simply to propose him at this meeting, and that he would be nnanimously elected. Before doing so, however, I consulted him as to his own feelings, and I regretted very much to hear a positive negative to the proposition. This was not because he took less interest in the work of the Society than hitherto, but because during the last few months be has been seriously unwell, and has now just returned a little recruited in health, and we are all glad to see him looking so much better. (Hear, hear.) Who should take the position which Mr. Wells should have occupied I can scarcely suggest.

Mr. Wells said he should be wanting in good feeling if he did not appreciate the President's kindness and the generous way he had alluded to any little services which he (Mr. Wells) had rendered to the Society. He knew that a large number of members of the Society would be pleased if he accepted the Presidency, and he appreciated highly their kind thoughtfulness in wishing to place him in such a high position. Before he undertook duties of the sort it was his dnty to see if he could do the work, which was no sinecure, and do it in a way that would satisfy the Council and himself. He felt he would not have the time to devote to itand therefore he thought he would be acting wrongly if he accepted the position. At the same time, he thanked his friends for the way they snpported him, and the President for the way they supported him, and the President for the way he had spoken of him. As long as he was spared he should endeavour to further the interests of the Society. He proposed that Mr. Hayes be re-elected President. On this day twelve months ago he objected principle to Mr. Hayes being re-elected. If they had spother member of the Society capable of filling the chair another member of the Society capable of filling the chair with the same ability as Mr. Hayes he certainly thought they should not have a President put in for an indefinite period. (Laughter.) It happened, however, before, and the same thing occurred on the other side of the water, but he did not think it right. At present they had heavy work before them that would require careful thinking out, and from his experience of Mr. Hayes he did not think they could do better than ask him to serve for the next year.

Mr. Beggs having been called to the vice-chair,

Mr. CONYNGHAM said he had great pleasure in seconding the proposition. He endorsed what had been said of their President. He regretted that Mr. Wells's health prevented him accepting the position, as from the work he had done for the Society in the past, he thought he was worthy of any compliment they could pay him. (Hear, hear.) They had heavy work before them, and few could give the time it demanded. Mr. Hayes had so worthily occupied the chair for the last three years he hoped he would take the office for the next twelve months. (Hear, hear.) Then he trusted that Mr. Wells's health would be so restored that he would be able to accept from them the position they had proposed to confer upon him that day. (Hear, hear.)

Mr. Beggs, in supporting what had been said with regard

to Mr. Hayes, put the motion to the meeting, and it was

passed with acclamation.

Mr. HAYES, in returning thanks, said he could not find words to acknowledge the compliment paid him. He felt that though he had completed a little more than the supposed term as President, yet being pressed as he had been, he felt he must give up his own strong wish to retire. (Hear, hear.) He felt very grateful for the kind way in which Mr. Wells had introduced his name. Though they differed occasionally, they all had the interests of the Society in view, and each acted according to his light. He thought that in the coming year they might look forward to a great deal of unanimity, and if they would all work heart and hand in dealing with the difficulties they might meet, he thought they would accomplish a work that the sister Society in England had been unable to perform.

THE OTHER OFFICERS.

The PRESIDENT then took the chair and proposed the re-election of Mr. Beggs as Vice-President.

Mr. GRINDLEY seconded the motion, which was adopted,

Mr. BEGGS said he felt very gratified for the renewal of confidence placed in him.

On the motion of Mr. WELLS, seconded by Mr. GIBSON, Mr. Hodgson was manimously re-elected Treasurer.

The PRESIDENT said he was sorry Mr. Hodgson was not there to speak for himself. They all felt that Mr. Hodgson was the man of all others who deserved the thanks of the Society for occupying the position which he had held so willingly for nineteen years. (Hear, hear.) During the period that he (the President) was auditor he had an opportunity of jndging of the way Mr. Hodgson kept his accounts, and he thought there was never a better balance-sheet placed before an auditor than his. (Hear, hear.)
Mr. Bernard moved that Messrs. Grindley and Simpson

be re-elected auditors.

Mr. Lyons seconded the motion, which was adopted.

COMMITTEES.

On the motion of Mr. Wells, seconded by Mr. Baxter, the out-going Law Committee was re-elected, Mr. Lyons's name being substituted for Mr. Evans's.

The committee to inspect candidates' certificates, the House and General Purposes Committee, the School Committee, and the committee to examine declarations, &c., were also appointed.

MEMBERS OF COUNCIL TO NOTIFY RETIREM 31

Mr. Wells thought it was desirable that when a druggist was retiring from the Council he should notify his constituents of the fact, in order that another druggist could be elected in his place. At present the representation of the druggists was being reduced, but not at the instance of the pharmacists. (Hear, hear.)

The PRESIDENT agreed with Mr. Wells. It looked as if the druggists did not take much interest in the Society.

Mr. Wells said the same observation applied to the pharmaceutical chemists.

Surgeon MERRIN thought there should be a rule requiring retiring members to give sufficient notice of their intention to retire.

Mr. Wells said that could be done by passing a resolution requiring members to notify the Registrar.

This suggestion was approved of.

PENALTIES.

Mr. Wells suggested that in future in all cases where themagistrates declined to give costs of prosecutions the Society should press for the full penalty.

Routine business having been transacted, the Council

adjourned.

PRELIMINARY EXAMINATION.

The following have passed:—Messrs. C. R. McMullen, H. Alexander, F. Garty, J. Fleming, G. Lalor, J. M. Torrens, J. Fagan, W. J. Cowan, T. Nevin, R. Lynch, M. McDouald, F. H. College, L. H. M. McDouald, T. H. College, L. H. M. McDouald, T. H. College, L. H. M. McDouald, R. Lynch, R E. H. Collopy, J. H. Moody. Nine candidates were rejected.

PHARMACEUTICAL LICENCE EXAMINATION.

The following have passed:—Messrs. R. T. Jennings, J. R. Stevenson, F. T. Parker, C. B. Vance, J. M. Cole, R. Wolfe, A. H. Oliphant. Thirteen candidates were rejected.

Pharmaceutical Society of Great Britain.

FIRST OR PRELIMINARY EXAMINATION.

THE following are the questions set on Tuesday, October 9:-

LATIN.

(Time allowed-from 11 A.M. to 12.30 P.M.)

- I. For all candidates. Translate into Latin :-
- 1. The wise citizens will give books to their boys
- 2. The boys would be puaished by the learned judges.
- 3. He denies that disgraceful things can be useful.
- 4. Caesar leaves the city that he may command the army.
- 5. There is no doubt that they drove the virtuous men from the city.
 - II. Translate into English either A (Caesar) or B (Virgil), (Candidates must not attempt both authors.)

A. CAESAR.

- 1. Ob eas causas ei multioni, quam fecerat, T. Labienum legatum praefecit; ipse in Italiam magnis itineribus contendit, duasque ibi legiones conscribit et tres, quae circum Aquileiam hiemabant, ex hibernis educit, et, qua proximum iter ia ulteriorem Galliam per Alpes erat, cum his quinque legionibus ire contendit. Ibi Ceutrones et Graioceli et Caturiges, locis superioribus occupatis, itinere exercitum prohibere conantur.
- 2. Si quos adversum proclima et fuga Gallorum commoveret, hos, si quaererent, reperire posse, diuturnitate belli defatigatis Gallis, Ariovistum, quum multos menses castris se ac paludibus tennisset neque sui potestatem fecisset, desperantes jam de pugna et dispersos subito adortum magis ratione et consilio, quam virtute, vicisse. Cui rationi contra homines barbaros atque imperitos locus fuisset, hac ne ipsua quidem sperare nostros exercitus capi posse.

Grammatical Questions.

(For those only who take Caesar.)

- 1. Decline, in full (in the singular), proximum iter, and (in the plural) duas legiones (Par. 1).
- 2. Give the degrees of comparison of dulcis, altus, malus, multus, digne, araciler.
- 3. Give the principal parts of spondeo, caveo, pasco, mergo, emo, lino.
- 4. In what manner are direct interrogative sentences translated into Lati? Give examples.

B. VIRGIL.

Namque, sub ingenti lustrat dum singula templo, Regiuam opperieus; dum, quae fortuna sit urbi. Artifienmque manus inter se operumque laborem Miratur; videt Iliacus ex ordine puguas, Bellaque jam fama totum vulgata per orbem, Atridas, Priamumque, et saevum ambobus Achillen.

Neenon et vario uoctem sermone trahebat Infelix Dido, longumque bibebat amorem, Multa super Priamo rogitans, super Hectore multa: Nunc, quibns Aurorae venisset filius armis; Nunc, quales Diomelis equi; nunc, quantus Achilles. "Immo, age, et a prima dic, hospes, origine nobis Insidlas," inquit, "Danaum, easusque tuorum, Exroresque tuos: nam te jam septima portat Omnibus errantem terris et fluctibus aestas."

Grammatical Questions.

(For those only who take Virgil.)

- 1. Decline, in full (in the singular), infelix Dido, and (in the plural) errores twos (Par. 2).
- 2. Give the degrees of comparison of dulcis, altus, malus, multus, digne, graviter.
- 3. Give the principal parts of sponder, caven, pasco, mergo, emo, line.
- 4. In what manner are direct interrogative seutences translated into Latin? Give examples.

ARITHMETIC.

(Time allowed—from 12.30 P.M. to 2 P.M.)

(The working of these questions, as well as the answers, must be written oul in full.)

- 1. What will a piece of plate cost which weighs 3 lb. 4 oz. 5 dwt., if the price of silver be 2s, 8d, per oz., and the charge for workmanship 3l, 6s, per lb.?
- 2. The fore-wheel of a coach is 8} feet round, the hind-wheel 12½ feet round; how many more revolutions will the former make than the latter in the course of a mlle and a quarter?
- 3. How much will $\frac{\pi}{2}$ of $78\frac{\pi}{2}$ yards amount to at 5%, 3d, for $\frac{\pi}{2}$ of $1\frac{\pi}{4}$ yards? (Long Measure.)

4. Simplify the following fraction, giving the answer to five places of decimals:—

5.001 + 2.01 - 3.0001 - 1.05 5.06×3.001

- °5. A beam is 1444 metres long, 516 centimetres wide, and 174 millimetres thick. How many onlic metres does it contain?
- 6. If the carriage of 3 cwt. 3 qr. 14 lb. for $104\frac{1}{2}$ miles cost 11. 14s. $10d_{s}$, what should be charged for the carriage of 5 tons a distance of 93 miles?
- 7. A wine-merchant galas $\frac{\pi}{16}$ of the cost of a galloa of while by selling it at 21s.; what would be his gain per cent. if he sold it at 22s. 6d.?
 - This question must be attempted by every candidate.

ENGLISH.

(Time allowed-from 3 P.M. to 4.30 P.M.)

1. Parse fully :-

"It becomes the throned monarch better than his crown."

- 2. What do you understand by (a) the Nominative Absolute, (b) Nouns in apposition, (c) the Indirect Object? Give one sentence in illustration of each
- 3. Give the meaning and derivation of the following words: —Procrastination, braggart, amphibious, circumnavigate, antipathy.
- 4. In the following passage supply the necessary cipital letters, and put in the stops and inverted commas where necessary:—once he asked tom davies whom he saw drest in a fine suit of clothes and what art thou tonight tom answered the thane of ross which it will be recollected is a very inconsiderable character o brave said johnson
 - 95. Write a short composition on one of the following subjects:-
 - (i.) The Last Session of Parliament.
 - (ii.) The Tower Bridge, or The Mauchester Ship Canal, or The Tay Bridge.
 - (iii.) Molern Improvements in Methods of Lighting.
 - (iv.) "Content is a kingdom."

* This must be attempted by every candidate.

PHARMACEUTICAL EXAMINATIONS.

AT the October meeting of the Board of Examiners for England and Wales there were for the

Mojor Examination

26 candidates examined, of whom 15 failed and the following passed, viz.:—

Burrows, Harry Davies, Herbert Paget Davies, John Ford, James Gillett, Francis Johu Grieve, James Hughes, Joshua Arthur Humphrey, John Thurlbeck King, Charles Edward Parry, Owen Thorpe, Albert

WE have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of candidates wno were granted

Minor Examination

Certificates at the same meeting.

Amiss, Albert Edward Angel, Edward Charles Appleyard, Percy Ault, Percy Bates, Sydney Lancaster Benjamin, Joseph Bennett, Frederick Brack, David George Brewer, Walter Joseph Bryant, Nicholas John Andrew Charles, Thomas Watkin Charlesworth, Charles Edward Clarke, John George Clegborn, James Cocker, Lewis Alexander Cole, Arthur Couldery, George Etches Coward, Miles Cultwick, John Henry Dawney, Charles Benjamin Dickinson, William Durbin, Heury Eastman Evans, David Fisher, George William Freeman, Alfred Percy Garwood, George James Gibson, George Shaw Griffiths, Frederick Gray

Harrison, John George Hemmiug, John Wilson Hewitt, Silas Holroyd, James Hutchinson, James Herbert Jenkius, Morris William Jones, William Miall Lengden, Alfred Martin, John Wooleock Massey, Cecil Mitchell, Henry Searle Moody, William Edmondson Morrey, George Moultrie, George Brlggs Neal, Frederic Neathereoat, Harry William Ockwell, Edwin Pearce, William Forward Potter, Heury Arthur Pratt, George Joseph Rist, William Klug Rogers, Frank Rossiter, Samuel Ruxton, James Seruby, John Charles Smith, Charles Steeds, Frederick George Stelfox, Walter Edmund

Stratton, William George Swaffin, John Phillips Tattersall, John Taylor, Archibald Leonard Taylor, Arthur Ernest Taylor, Charles John Taylor, Thomas Rolf Thomas, Hugh William Thomas, John Ollver Thompson, Edward John Tully, Fred Herman Tutt, George Francis Wallis, Robert Aerld Wardley, Thomas Webb, Joseph John White, Henry Fox Williams, David Israe Williams, John (Bugilit) Williams, John (Corwen) Wilson, Arthur Frederick Wood, Arthur Henry Woodliffe, Henry Grayson

EDINBURGH.

At the meeting of the Board of Ecaminers for Scotland held at Edinburgh, the results were as follows:—

Major Examination.

Elder, Alex., Edinburgh

| McKenzie, Thomas, Golspie

Minor Examination.

Adams, George Cuthbert, Glasgow Alcock, James Elsworth, Sheffield Allan, William, Edinburgh Allison, John Robert B , Sheffield Atherton, William, Liverpool Bain, James, Glasgow Blonut, G. W., Newcastle-on-Tyne Buse, John, jun, Cardiff Dean, Arthur Shiers, Manchester Duncan, James George, Edinburgh Eastwood, Horace, Manchester Ferguson, Wm. Cross, Motherwell Fyfe, John, Edinburgh Gilmour, Andrew, Burntislan I Gilmour, William, jun., Edinburgh Hammond, Walter, Leeds Hughes, John Hampden, Edinburgh Jepson, Ewart, Manchester Johnstoue, John, Edinburgh Kingston, Walter Wright, Sheffield Lam's, William Henry, Manchester Lawrence, Alexander, Liverpool McIntosh, Alexander, Edinburgh

McLeod, John Peter, Edinburgh McOwat, John Hogg, Glisgow Marshall, John George, Manchester Mason, Alexander, Edinburgh Mirrilees, Arthur H., Eliuburgh Mundell, Stephen Robson, Leeds Pendlebury, James, Manchester Proudfoot, William, Glasgow Rhodes, Edwin Atkinson, Wakefield Robertson, James George, Edinburgh Russell, John, jun., Glasgow Sanderson, George A., Edinburgh Seel, Thomas, Barnsley Shand, John Johnston, Arbroath Smith, Westby, Rotherham Stephen, David, Glaszow Taylor, William Stewart, Edinburgh Watson, David, Glasgow Whaley, C. E., Newcastle-on-Tyne Whitby, Harold Cuthbert, Widnes Wolsteaholme, Jesse, Peudlebury Wray, Thomas, Haydon Bridge

The Minter Session.

CHEMISTS' ASSISTANTS' ASSOCIATION.

This Association entered upon its eighteenth session on Thursday evening, October 4. When the preliminary business and nominating of new members had been disposed of, the President, Mr. R. H. Jones, gave his inaugural address. He apologised for his address assuming the form of an appeal in behalf of the claims of the Association upon assistants, these having been so often urged on previous occasions. But being himself a retail-assistant, and having participated in the benefits accruing from membership, he thought was a sufficient justification for a renewal of its claims. Commenting upon recent communications by members, he thought that in point of interest and utility to pharmacists, they would well compare with older ones. Ultra-scientific papers he was inclined to depreciate, owing to their not being assimilable by the average assistant—in fact, he thought the Association's sphere of usefulness was retarded by papers which could only be thoroughly appreciated by members of scientific societies, for thereby the attendance of those was lost whose interest it was the special concern of the Association to quicken.

Much more popular had been the discussion of subjects of trade-import, pharmaceutical politics, and education; the advantage to themselves of such discussions could not be over-estimated. He hoped that during his year of prosidency the social aspect might be still further developed, and he trusted that soon the Association would meet with a measure of support sufficient to enable it to keep open its rooms more than one, if not every, night in the week. Why had the Association such meagre support? Out of perhaps 2,000 assistants engaged in London, 500 of whom would be free to a tend the meetings, only some 160 were members. This, he

thought, was due to the apathy and lack of csprit de corps which confronted every forward movement in the trade; and in order to try and overcome these, the Council had forwarded its prospectus to nearly every chemist's shop in the metropolis. He asked every member to second this effort by a personal canvass. He held that the root of all the disunion in the trade lay in defective systems of education; and though this was, perhaps, beyond the limits of his address, he might say that this Association had the goodwill of all the principal tutors in the metropolis, and was entirely independent of any particular school. There were men who, while bewailing the probable nntoward effect of the modern system of trading on their profits, ridiculed the claims for extended knowledge and the principle of "your duty to your fellow-craftsmen," as set forth in that room from time totime. He was convinced, with the tendency there was even now apparent to dissociate the pharmacist strictly from the vendors of toilet-requisites, patent medicines, &c., that the former acquiring a high standard of excellence and an intimate knowledge of everything passing through his hands, and so aiding the practice of medicine, would ensure for himself in the near future, if not so much gold as the enterprising storekeeper gained, greater respect and social recog-

He also asked on behalf of the Secretaries, that any member coming across a little difficulty which he himself could not work out would bring the same before their notice, when they would be pleased to find someone willing to attempt its elucidation.

A vote of thanks to Mr. Jones for his address was moved by Mr. H. H. ROBINS, seconded by Mr. GANE, and carried by acclamation.

SHEFFIELD PHARMACEUTICAL AND CHEMICAL SOCIETY.

THE annual meeting, distribution of prizes, and dinner of the above Society were held at the Cutlers' Hall on Thursday evening. The meeting was held at 6 o'clock, Mr. J. F. Eardley, the President, in the chair. There was a very good attendance of members and of the general public, and Mr. C. B. Allen, pharmaceutical chemist, Kilburn, delivered

THE INAUGURAL ADDRESS.

Mr. ALLEN, having thanked the Council for honouring him with the invitation to deliver the address, said as a pharmacist carrying on his vocation in suburban London, where all questions relating to pharmacentical education were easily delegated to the central authorities, hc was able to express his admiration for the public spirit and strong untiring effort which led to the foundation and continually supported a local centre of education such as is so well exemplified by the Sheffield School of Pharmacy. One of the first things which he wished to impress upon a youth at the outset of his career was that he should read carefully all those portions of the Calendar of the Pharmaceutical Society which touch upon the subject of prizes and examinations. The student could not but find it profoundly interesting and instructive. He regretted very much that there were many young men who, although they had adopted pharmacy as their vocation, persistently neglect to take a full and comprehensive view of all that lies before them, and who even. pass the whole period of their apprenticeship in happy ignorance of some of the things which should be realised long before they have gone so far upon the road to discouragement and inevitable failure. Of the total number of students who had passed the First examination during the last ten-years, a little less than half had joined the Pharmaceutical Society. It was satisfactory to find that so many of their young men had thus recruited the ranks of the Society at a time when the prestige of the body corporate, through the continual advancement of its educational work, was of the utmost importance to them, and would powerfully influence them in their work as individuals. Perhaps because his name could be found in the list of unsuccessful candidates he had always felt a keen interest in the competition for the Jacob Bell Memorial Scholarships.

When one considered the number of students who were eligible to compete for those, side by side with the actual value of the scholarships to their fortunate possessors, as well as the universal admission that of all students he of

thel genus pharmaceutic was the most hard up, he could not find words to express his astonishment that during the last decade the numbers competing for those two scholarships had averaged just about 27 per annum. To be a "Bell Scholar" should be the happiest dream of the youthful pharmacist, and the attainment of that distinction, for a time at least, his highest and most constant ambition. He was unable to believe that it is actually realised by the bulk of young men in England, Scotland, and Wales that two prizes, worth 75l. to 80l. each, were contended for annually by a fraction only of those who must obviously be eligible to do so. He beseeched every pharmaceutical apprentice in Sheffield, and through them every apprentice in Great Britain, to read and consider the regulations pertaining to those scholarships with a view to augmenting the number of competitors. If, by an increased competition, the list of unsuccessful candidates should be augmented tenfold, they would, by their earnest endeavours to attain the distinction, as well as by the course of study it had led them to pursue, have come so easily into the possession of their qualification, that in the retrospect of their stndent-life they would look with pleasure and gratitude upon the contest which, whilst yet on the threshold of their pharmaceutical career, formed the first incentive to adopt a definite line of study.

The Manchester Pharmaceutical Association Scholarship afforded another marked illustration of an indifference which is scarcely credible. To students he would commend the periodic examination, a constant revision of their work, regular attendance for their class prizes, the attainment here and there of a science certificate, or an occasional explora-tion into the mysteries of the "Students' Corner" [of The Chemist and Druggist.] These, and others like them, were the stepping stones by which they would ford the stream of knowledge. Opportunities unknown or unrealised a few short years ago, were now thickly scattered round them. Let them accept them, ere the time pressed and life became one long round of labour in the struggle for existence, define their object clearly, and work honestly and systematically towards its achievement. Through their familiarity with the business of pharmacy they must soon realise that they had adopted a vocation of manifold responsibilities, inasmuch as they were to fit themselves for becoming the intermediaries in an Act of Parliament which gave them certain privileges on the one hand, and provided for the safety of the public upon the other. He was aware that the privileges were considered by some to be unimportant, and barely worth the trouble of attainment; but such as they were they must be prepared to accept them loyally until the time was ripe for better things. If they were firm in their adhesion to pharmacy, let their appreciation of it lead them to a high estimation of its possibilities, remembering that if they disparaged their vocation those who were brought into contact with them would do the

They must give themselves up to the mastery of every detail. However petty, however paltry, they were all worth acquiring, and there was so much to do that it would easily absorb all their working-hours. They must cultivate their powers of observation, and seek an explanation for every-thing which appeared to need it, and not be content with the mere knowledge that it exists. For every cause there must be a reason. Their seniors who had been engaged in pharmacy for many years could tell them, if they sought them countless things which were worth knowing, and which they, would value in later years perhaps better than they did now. Above all, let them pay heed to their seniors' counsel and respect their experience until they were able to discover better ways for themselves. If they were inclined to think them faddists, they should remember that their fads have endured the test of time. "Knowledge comes, but wisdom lingers" was true to them, and true to students. They might be on the high road to the one, but they must be content to wait for the other.

If the miscellaneous nature of the trade they were engaged in necessitated the handling of many things which were unconnected with pharmacy, if their work was rough and sometimes arduous, they were none the worse for that, for many of the masters in their craft had trod the self-same paths; and providing they did their duty in all things with cheery and determined purpose to excel in each, they would assuredly find in due season, out of their own experience,

that the evolution of the pharmaceutical chemist, by easy gradations, from the country apprentice was not only possible, but had become an accomplished fact. To those who would go further still, the chart lay open, and all its ways were plainly marked. They might obtain admission and opportunities of continued labour in the Research Laboratory, the Pharmaceutical Society through its Council having thus made it possible for them to become workers for the common weal. Whether their enthusiasm ultimately devoted them to the practice of pharmacy, or whether it led them out into the wider fields of science, they would still remain true children of their alma mater, reflecting their successes upon the teachers of their earlier days, and ever ready to acknowledge the gratitude they owed to them. Give heed to them row. The road would widen, and they knew not whither it led—follow trustfully until they found it pointing clearly to that great opportunity which so mysteriously shapes its ways that once at least in life it comes to all who work and wait. (Applause.)
On the motion of Mr. S. T. RHODEN, seconded by Mr. G.

OWEN, a cordial vote of thanks was passed to Mr. Allen for

THE DINNER

was also held in the Cutlers' Hall, under the presidency of Mr. Eardley. A larger number than usual sat down. The PRESI-DENT opened the after-proceedings by proposing the usual toasts. Mr. C. B. ALLEN submitted the toast of "The Sheffield Pharmaceutical Society," to which the PRESIDENT replied. "The Pharmaceutical Society of Great Britain" was given by Mr. H. E. IBBITT, and replied to by Mr. G. T. W. NEWSHOLME, F.CS., and Mr. J. RYMER YOUNG, F.C.S. Mr. C. O. MORRISON gave the toast of "The Examiners and Professors of the Pharmaceutical Society of Great Britain," and it was responded to by Professor GREENISH and Mr. E. WHITE, B.Sc. "The Medical Profession," "Scientific and other Learned Societies," and other toasts followed. The speeches were interspersed with music, vocal and instrumental, and a pleasant evening was spent.

THE LIVERPOOL PHARMACEUTICAL STUDENTS' SOCIETY.

THE annual meeting of this Society was held at the University College, on October 4, the President, Mr. Frank Walker, in the chair. The treasurer's statement showed a small balance on the right side. The following officers were elected for the ensuing session:-President, Mr. R. H. Mitchell; Vice-Presidents, Messrs. R. C. Cowley and J. Jones; Treasurer, Mr. J. G. Jackson; Secretary, Mr. Geo. McLoughlin; Council, Messrs. J. Park, Geo. Brinson, H. Wyatt, jun., T. H. Wardleworth, J. Cockshott, J. R Burn, J. Pipe, F. Walker, and S. R. Sproatt.

BRIGHTON JUNIOR ASSOCIATION OF PHARMACY.

THE first meeting of the 1891 session of this Association was held on Wednesday evening, October 3. A letter was read from Mr. R. Bremridge, secretary Pharmaceutical Society, stating that the donation of 14t, collected by the Association last session, entitled them to 132 votes in any election held this year. Mr. C G. YATES, the re-elected President, in his opening address referred to the great loss the profession in Brighton had sustained by the death of Mr. W. D. Savage, J.P. A wreath had been sent by the committee on behalf of the Association, and he personally represented them at the funeral. He called attention to the subjoined programme for the first half of the session. He announced with regret the resignation of Mr. Williams, member of the committee, who had left Brighton for Newcastle. In the course of his remarks, Mr. Yates commented on the sale of carbolic acid, and on chemists trading under obsolete names, which he thought was an evasion of the law, but he did not expect the Society would take cognisance of the matter so long as some of its most notable members followed that course.

Mr. A. E. COLMAN proposed a vote of thanks to Mr. Yates, and Mr. W. H. GIBSON, F.C.S., President of the Senior Association, in seconding the motion, said he doubted whether, in the present state of aff irs, there was sufficient inducement to young men to spend their time and money to legally

qualify themselves to carry on the business of a chemist. He thought the craft was deserving of more Government support than it at present has, and that that end can only be attained by a much stronger representation in the Pharmaceutical Society.

The Herbarium Prize Competition has only brought forth two entries, Mr. A. E. Coleman and Mr. W. J. Snow. The

result will be made known in a week or two.

Paogramme for First Half of Session 1894-5.

Wednesday Oct. 3. General Meeting. Presidential Address.

, 10. Musical and Social Evening. Chairman, Mr. C. G. Yates.

, 17. Anunal Dinner. Café Royal

24. Short Papers by Members. Exhibition of Prize Herbarium. 31. Musical and Social Evening. Chairman, W. H. Gibson, Esq.

Nev. 7. Paper by Mr. A. E. Coln an': "The Glacial Period."

Musical and Social Escning. Chairman, E. Histed, Esq. , 14_a

11. Smoking Concert, Hôtel Métropole.
28. Paper by Mr. Giebler: "Motive Power of Nlagara Falls."

Dec. 5. Musical and Social Evening. Chairman, G. Watkin, Esq.

Paper by Mr. Gripps: "Bacteriological Examination of Water." ,, 12.

" 19. Smoking Concert. Hôtel Métropole.

F. A. CROWHURST, Hon. Sec.

Trade Rotes.

MESSRS. W. R. WARNER & Co., of Philadelphia, claim to have been the only American exhibitors at the Antwerp Exhibition to whom a Grand Prize was awarded in Class 13 (Chemical Industries).

MESSES. BURROUGHS, WELLCOME & Co. have some beautiful souvenirs of the British Medical Association meeting at Bristol containing photographs of the city. A copy will be sent to any chemist who drops the firm a postcard

MESSRS. NEALE & WILKINSON, shipping-agents, 9 Union Court, Old Broad Street, E.C., have published a very useful compilation, giving in alphabetical arrangement a complete copy of the new U.S. tariff, and comparing it with the one previously in operation. To this they add the Canadian and Indian tariffs at present in operation.

WE have received from Messrs. Randall & Co., of Southampton, samples of lozenges (both with plain and black-current basis) manufactured by them. The firm are amongst the oldest manufacturers of medicated lozenges in this country, and it says much for their reputation that, in face of growing competition and modern methods, they keep up the quality and finish of their lozenges.

GELATINE CAPSULES .- One of the branches of pharmacy which Messrs. C. J. Hewlett & Son, of Charlotte Street, E.C. are successfully cultivating is the manufacture of gelatine capsules. One feature of their process is that the contents of each capsule are accurately measured, so that any shrinkage of the capsule or undue capacity is compensated. The capsules, which we have examined, are of good shape, quite flexible, and free from that toughness which hazards the ready solubility of gelatine membranes.

WINTER STOUT.—Messrs. Bratby & Hinchliffe (Limited), of Manchester, have ready for the winter trade an essence for making "winter stout" (an aërated beverage), and, as inducements for manufacturers to take it up, they offer with certain quantities of the essence supplies of handbills and a striking showcard. The beverage made from this essence is certainly one of the best and most novel of nonintoxicating drinks; its appearance (particularly the rich brown froth) is exceedingly like brewed stout, and it has just those warming properties which are wanted in the wintertime. The odour and taste are aromatic and sui generis, and there is something in it which distinctly recalls malt stout. We may predict much popularity for this beverage. We should not object to a slight decrease of the pungency. Chemists who manufacture aërated waters should try it.

THE CHEMISTS' AËRATED AND MINERAL-WATER ASSOCIATION (LIMITED) have produced a "giant syphon," which they intend to supply to those of their members who specially concern themselves with the syphon-trade for exhibition as an advertisement. This syphon is 2 feet 3 inches in height, and holds $2\frac{1}{4}$ gallons. The metal top, which is silver-plated, weighs $6\frac{1}{2}$ lbs., against 6 oz., which is the weight of an ordinary top. This big syphon may remind some customers of the monster lath and plaster hat which so worried Thomas Carlyle, but it is a good advertisement all the same. The Association informs us that they have been successful in registering it, so that they are protected from imitations. We should like to understand something more about this. They certainly cannot register a syphon as a design, and we cannot imagine under what law they can secure a monopoly in big syphons.

MR. A. BOISSELIER, who has charge of the branch office of the Pharmacie Centrale de France at 86A Leadenhall Street, E.C., sends us a copy of an interesting pamphlet on the history, organisation, and working of the great French company. The pamphlet has been written, in French, by M. Georges Soenen, the commercial manager of the Lyons branch, and is illustrated by numerous excellent sketches of the various offices and the factory of the company. The Pharmacie Centrale is a co-operative society, founded in 1852, the shares of which are held by French pharmaciens, whom it supplies with their requirements, and among whom the profits are divided. François-Laurent-Marie Dorvault, a distinguished Parisian pharmacist, was the originator of the business, which has at present a turnover of nearly 500,000l. a year, and counts over 8,000 customers. Of the share capital of 10,000,000f. at least 70 per cent. must be held by French pharmaciens, who elect a board of directors consisting of twelve members. These, in turn, appoint the managing director of the company. In Paris the Pharmacie Centrale occupies the hotel formerly owned by the Ducs d'Aumont, and in the chief provincial cities of France the company have branch establishments.

"FROG-IN-THE-THROAT" WINDOWS .- A representative of THE CHEMIST AND DRUGGIST went round to Messrs. Barclay & Son's showrooms, at Farringdon Street, one day this week to see a sample frog-show, which Mr. Garratt, the "Frog-in-the-Throat" agent, has fitted up there. The show gives a good idea of what the window will look like under the frog régime, and metropolitan chemists who are in Farringdon Street district should spend a few minutes inspecting it. For the benefit of others we may mention that the basis of this winter's shows in England will be a pleasing scene, "Merrie England in Ye Olden Time," wherein the May Queen is receiving an ambassador from the King of Frogs, while the queen's subjects (also frogs) dance round the May-pole, play skittles and quarterstaff, bend the bow, wrestle-in fact, show how our forefathers used to work off superfluous energy. Besides this scene, which will occupy the base of the window or a raised platform on line with the eyes of onlookers, there are several other sketchesin Mr. Garratt's show as samples of his ability to attract and amuse. When we say that "Merrie England" will be the basis of the frog-windows, we ought to add that topical subjects will be freely treated also, but as to that we refer inquirers to Mr. Garratt.

THE "FORMULARY" which Messrs. Armour & Co., of 59 Tooley Street, S.E., have found so popular with chemistsand physicians has now reached the fourth edition. Some of the formulæ have been improved since the first edition, and several new ones have been introduced. The following is typical of the latter:-

Wine of Beef and Quinine.

Sherry wine (detannated) to make . . 16 ,,

Dissolve the citric acid and the sulphate of quinine in the hot water, and pour the solution upon the extract of beef contained in a mortar, or other suitable vessel. Triturate the liquid with the extract, until they form a smooth mixture, then gradually add, while stirring, 12 fl. oz. of wine Transfer the mixture to a bottle, set this aside in a cool place for a few days, filter and pass enough while through the filter to make 16 ft. oz.

Each finid onnce represents 16 grs. of extract of beef and 1 gr. of snlphate of quinine.

We notice a formula for a pancreatic cod-liver oil emulsion, about the stability of which we should like to be assured, for pancreatin so acts upon cod-liver oil that in about a fortnight most preparations containing the two become abhorrent to taste and smell.

New Companies and Company News.

JOHN OAKEY & SONS (LIMITED) have declared the third dividend on the preference shares, at the rate of 6 per cent. per annum, for the six months ending October 31 next.

IT is notified by the directors of the NEW CIVIL SERVICE CO-OPERATION (LIMITED) that a dividend will be payable on November 10 next, at the rate of 5 per cent. per annum, for the six months ended August 31.

ECLIPSE MINERAL-WATER COMPANY (LIMITED).—Capital 6,000l, in 5l. shares (of which 600 are 7-per-cent. preference). Objects: To acquire and carry on the business of a mineral-water manufacturer, carried on as "The Eclipse Mineral-water Company," at Bicester and Oxford, by Frederick Smith. The first subscribers (who take two shares each) are:—F. Smith, mineral-water manufacturer; Edward Coggins, accountant; Geo. T. Caindy, veterinary surgeon; Wm. J. Tomkin, saddler; Frank Buckett, licensed victualler; Geo. Timberlake, engineer; and Wm. Breckless, bottler, all of Bicester, Oxon. Registered without articles of association.

GENERAL KAPUTINE SYNDICATE (LIMITED).—Capital 50,000l., in 1l. shares. Objects: To acquire the business of manufacturing the speciality known as "Kaputine," carried on by the Kaputine Company (Limited), and to carry on the business of a company for the production and sale of medicinal specialities. The first subscribers (who take one share each) are:—A. Milne, 43 Wicker St., Sheffield, chemist; John White, 97 Masboro' Street, Rotherham, chemist; Thos. Topham, Brighouse, chemist; J. Rhodes, Mirfield, chemist; Albert Butterworth, Wakefield Rhad, Bradford, pharmaceutical chemist; John T. Bailey, Brownroyd, Bradford, chemist; Herbert Buckley, Lockwood, Huddersfield, chemist. The first directors (to be not less than three nor more than five) have evidently not yet been appointed, as no names are given. Qualification, 100 shares. Remuneration, as the company may decide. Registered office, 51 Lidget Street, Lindley, Huddersfield.

J. HINDLE & COMPANY (LIMITED).—Capital 15,000l, divided into 600 preference sbares of 5l. each and 12,000 ordinary shares of 1l. each. Objects: To acquire the business carried on by James Hindle at 20 and 21 Chapel Lane, and Durham Street, Hnll, to enter into an agreement for tbat purpose, and to carry on the business of aërated and mineral-water and cordial manufacturers, hop-bitters, and non-intoxicating beer brewers, British wine merchants, makers of fruit essences, flavours, syrups, extracts and decoctions, chemists, chemical-manufacturers, &c. The first snbscribers (who take one share each) are:—T. Wanless, New Walk, Beverley, director of public company; J. Hindle, 72 Durham Street, Hnll, mineral-water manufacturer; C. Hopper, 55 Thomas Street, Hull, licensed victualler; A. Ingram, 62 Durham Street, Hull, grocer; Wm. Westwood, 229 Spring Bank, Hull, licensed victualler; R. Weild, 7 Balfour Street, Hull, bookkeeper; A. Johnson, 20 Silver Street, Hnll, printer. The first directors (to be not less than three nor more than seven) are Thomas Wanless, Charles Hopper, Alfred Ingram, William Westwood; and, after allotment, James Hindle, managing director, at a salary of 250l. per annum and a commission on the profits. Qualification, 50l. Remuneration, 50l. per annum, divisible. Registered office, 21 Chapel Lane, Hull.

J. H. CALVERT & BROTHERS (LIMITED).—Capital 30,000*l.*, in 10*l.* shares. Objects: To acquire the business carried on at Oakenshaw, near Accrington, at Manchester, and at London under the firm name of "J. H. Calvert & Brothers," to enter into an agreement for that purpose, and to carry on the business of calico-printers, bleachers, dyers, and makers of dyes, inks, paints, drugs, dyewares, vitriol, and printing, dyeing, and bleaching materials. The first subscribers (who take one share each) arc:—J. H. Calvert, Sparth House, Clayton-le-Moors, calico-printer; W. F. Calvert, Tbe Parks, Bare, Lancashire, calico-printer; R. P. Earwaker, Haddon House, Buxton, salesman; J. Barker, 75 Bland Street, Brooke's Bar, Mancbester, salesman; H. Clarke, 70 Clifton Street, Old Trafford, cashier; J. H. Calvert, jun., Willow House, Clayton-le-Moors, manager; James H. Calvert, 20 Pandora Road, Hampstead, N.W., salesman.

Personalities.

MR. ERNEST KENT, of the firm of G. B. Kent & Sons, is leaving England on October 16 in the Oroya for a business trip to the Australian colonies and New Zealand.

Mr. J. Grantly Tingle, an old Bell Scholar, is leaving for Secunderabad to undertake the management of Messrs. Badham, Pile & Co.'s pharmaccutical department.

At the meeting of Freemasons at the Bi-annual Assembly held at Alcester, under the Presidency of the Right Hon. Lord Leigh, Grand Provincial Master, Mr. Fred. Bird, chemist, Coventry, was elected Grand Provincial Deacon.

MR. GILBERT CHRISTY, who has been connected with his father's firm (fhos. Christy & Co., of Lime Street) for some years, has been compelled, on account of failing health, to seek a warmer climate. He leaves Liverpool this week for Brazil.

MR. J. T. WINDLE, chemist and druggist, of Chesterfield, has been the recipient of a silver fruit-basket and tea-urn from the congregation of the Parish Church, as a recognition of his services as churchwarden during the past fourteen years. The presentation was made by the vicar.

THE proprietors of King's dandelion pills lave been sending out a large number of sample-doses of those delicacies. Unfortunately, they used labels bearing a very ancient address—47 Mortimer Street, W. The present occupier of the house, Mr. Webber, a builder, has asked us to intimate to the trade that he knows nothing about Dr. King or his pills, and does not want to be bothered about them.

THE MURDER OF A CHEMIST.

THE death of Mr. Watkinson, chemist, of Nottingham, whose portrait we give, continues to excite a good deal of attention in that town. The deceased gentleman was well known and respected in the town. He was apprenticed originally at Wisbech, and afterwards carried on business at Cinderford as a chemist, and at Stratford-on-Avon as a draper. He was at that time a lay preacher for the Baptists, and subsequently entered that ministry, holding pastorates



at Lidbrook, in the Forest of Dean, West Haddon, Whittlesea, and Newthorpe. On leaving Newthorpe, through infirmity, he was presented with a handsome watch in recognition of his services. He then opened a shop in St. Ann's Well Road, Nottingbam, subsequently removing to Broad Marsh, where he lived at the time of his death. The funeral took place on October 3, and was attended by several thousand persons. The deceased leaves a son, who is an inspector of the Leicester Borough Police, and one daughter. The man Cutts, who gave himself up as the murderer, was brought before the magistrate on Wednesday. It has been ascertained that his statement was untrue, and he was discharged with a reprimand.

"EXTRACT OF HERBS,"

INTERVIEW WITH MEN WHO BUILT UP A BIG BUSINESS IN NON-ALCOHOLIC DRINKS.

REPRESENTATIVE of Advertising went to interview the partners in the firm of Newball & Mason, of Nottingham, the other day, to ask them how they built up their business. The first question he asked of Mr. Mason, the inventor of the extract of herbs which bears his name, was how he hit upon the idea of the speciality. Mr. Mason enlightened his interlocutor without much hesitation.



Mr. Mason.

"Some fourteen or fifteen years ago," he said, " I noticed there was a want for a non-intoxicating drink which could be made without difficulty in every home, and which would do away with the old fashioned way of boiling and straining the herbs, by supplying these herbs in a concentrated form. After eareful study and many experiments I was successful in producing a mixture to answer this purpose, and prepared solely from herbs, some of which we grow locally.

"Was it difficult to get a sale?"

"Certainly it was, at first. I always made a point of introducing the preparation to my intimates, and when they had tried it, they recommended it to others. We have had to educate the public to the use of the extract. No alteration has been made in the original formula, but the innovations that have been introduced in the mechanical part of the production of the extract from time to time have greatly facilitated the extraction of the herbs."

" Is it hard now to get a footing in a new district?"

"That is rather a difficult question to answer, as we don't think there are any new districts to work np. We have worked every town of importance from John O'Groats to Land's End, and our extract can be obtained in almost every place."

"They say that 'the prophet is not without honour save in his own country.' Is that true of yourselves?"

"No; nothing could be further from the truth. Some of onr best eustomers are here in Nottingham. As you no doubt noticed, our goods are given the best position in the ehemists' wirdows here, and our sale here is much greater than ever we expected it to be. Possibly the powerful electric light, which we keep shining on the roof of our factory, and which can be seen for miles around, helps us to keep this trade. Anyhow, we most certainly have it.

"Does your trade extend beyond our own country?"

"Yes; we ship constantly to most of the English-speaking countries."

The interviewer next turned the conversation to the personal career of Mr. Mason, whom he introduces to his

readers as a man "still in the prime of life, upon whose shoulders the management of a large business house seems to sit lightly." Mr. Mason, it appears, commenced business as a retail chemistand druggist in January, 1872, at Nottingham. The old shop, he said, could be easily accommodated in a corner of one of the rooms at the new Hyson Green works, which cover nearly an aere of ground, and to which the firm removed in 1890. The interval and to the continuous state of the new factory was spent in a small factory on Park Row.

The junior partner of the firm, Mr. B. Deaville, attends to the selling part of the business of which his partner supervises the manufacturing department and gives out the advertising, which, Mr. Deaville observed, became a necessity quite early in the history of the firm, when the



MR. DEAVILLE.

extension of the business through personal recommendation was felt to be too slow a process of growth. A three-line advertisement in a weekly journal was the infant effort in the direction of publicity. Then came a poser from the interviewer:-

"Did the extension of your advertising follow the extension of the sales, or was the increase first made in the advertising, then the advance in the sales followed?

"From the time we gave our first small order for newspaper advertisements our sales have increased year by year, and as our sales improve we make a point of spending extramoney in advertising to help another season's increase."

"How do you follow up the newspaper advertising? Do

you believe in good printing?

"I believe in always keeping on an advertisement in a newspaper when you have once commenced, so long as the newspaper keeps up its circulation and reputation. It is absolutely necessary to do this, as the week you drop out you stand a chance of losing the benefit of previous advertisements. Good printing is always an important item, as it pleases the eye, and shows up the character of the firm whose name it bears.'

"In what order of usefulness would you put (1) travellers, (2) newspaper advertisements, (3) insets, (4) posters, (5), counter-hills, and (6) window showers are?"

eounter-bills, and (6) window showcards?

"In placing the undermentioned in order of merit, I should like you to bear in mind that my judgment in these matters refers to our own business only. Newspaper advertisements I place number one. Insets, when properly placed, number two. Handbills, window showcards, number Travellers number four. Posters number five. Travellers may seem a long distance down the list, but I always find that newspaper advertisements, insets, hand-

bills, and showeards have to pave the way for representatives."

Messrs. Newball & Mason evidently know what they are about. Perhaps we may add they have been constant advertisers in The Chemist and Druggist ever since they

started in business.

ORINKLES for the DISPENSING OUNGER.



HIS is not Henderson. "I know a man in Leeds," writes the facetious artist, "who has a most useful wrinkle which facilitates work at the dispensing-counter. He can take down a jar of ointment, or bottle, hold a dispensing-measure—in fact, can roll pills and coat 'em." He is a clever man, doubtless, but we fancy that every pharmacist we have met can do the same, if not in such unconventional fashion. The object of our August postcard competition was to discover the Hendersons of the craft—the men and women who have ideas regarding apparatus, &c, for use at the dispensing-counter. We wanted facts from them, not their philosophic

doubts on therapeutics; and a very creditable selection of engravers' proofs is before us to testify to the originality that exists in pharmacy, and to warn us that much that is old is still useful. But the stock is not exhausted. There is more of the same material in pharmacy, and we may regard this collection of the choicest postcards as a beginning. For we are still open to receive for publication suggestions on practical topics and useful apparatus. Rough drawings we do not object to: our object is to get at original ideas or improved old ones. This is a facsimile of a design by Mr. Frederick

ANTIDOTES

IN CASE OF POISONING FROM

ACID SUGAR BELLADON PHOSPH STRYCH OPIUM

CARBOL: OXALIC LEAD BELLADON PHOSPH NINE

CARBOL: OXALIC LEAD BELLADON PHOSPH NINE

RUSPINI BRANDY

CASTOR NITRO HYPOD.SYRING

OIL GLYC FTHER

CASTOR STORE STREET

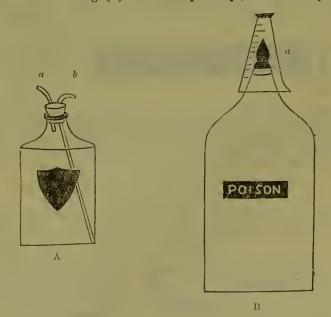
CASTOR ST

Reynolds, of Leeds. A list of the nearest doctors and their telephone numbers should be included on the board, which

is to be red painted, and have a number of brackets on its face to hold bottles containing antidotes, &c.; directions what to do; calico bags for bandages, &c., hung on hooks The artist is so graphic that he has not entered into particulars as to the composition of the various antidotes "in case of poisoning." The thoughtless will not, we hope, fill the bottles with ac. carbol, &c., but with the most appropriate preparations to counteract the effects of the respective poisons. Dr. Wm. Murrell's book gives coarse information on these points.

BOTTLES.

Few suggestions have been received in regard to bottles. The first drawing (A) is made by "Amyl," and its object

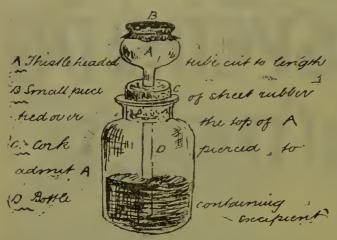


is "To obviate a sticky glycerine-bottle on the dispensing-counter. Mix the glycerine with an equal volume of previously-boiled aqua dest, and use from a bottle similar to the above sketch. It saves the trouble of removing the stopper each time; the tube b, being bent back, does not allow the ingress of dust, and on inclining the bottle a small stream, which is very convenient for measuring-purposes, can easily be run from a."

The second sketch (B) is a poison-bottle, and comes to us from Mr. J. Bryant, 48 Southwark Street, S.E., who says:

--"1 think this would be very useful for the dispensing-counter. The measure a is intended to be fitted something similar to the cup of a spirit-lamp, and would be very useful for measuring small quantities, and would be always at hand. If the bottle be made of dark-blue glass, and the word 'Poison' be embossed in moderately large red letters, it would be noticable and save many accidents."

An excipient-bottle is suggested by Mr. W. J. Brown, 5 Market Street, Dover, the following being a facsimile of his drawing:—



Directions.—By pressing in the diaphragm B, and releasing it after the end of the tube has been placed in the excipient, some of the latter is drawn up into the tube. On again pressing the indiarubber it is expelled as required.

Advantages.—Very safe to use when making only a small quantity of pill-mass, since by suddenly releasing the diaphragm the inrush of air carries with it the extra drop, so annoyingly present in ordinary drop-bottles.

BOTTLE-DIVIDER.

Mr. F. H. Glew, 156 Clapham Road, S.W., submits an original design for a "universal divider for graduating bottles, &c., into any number of equal divisions." Procure a piece of white elastic tape, $7 \times \frac{1}{2}$, and (without stretching)



ink one edge with lines $\frac{1}{2}$ inch apart, and the other edge with lines $\frac{1}{4}$ inch apart. Sew a

ring to each end of the tape. To divide a bottle into, say, ten parts, cut a narrow strip of paper the length of the bottle, then stretch the elastic tape until any ten divisions cover the strip of paper; now mark off in ink on paper strip. The divider is useful as a measure when not stretched.

CORK-EXTRACTOR.

Mr. T. R. Middleton, care of Mr. Coates, New Basford, Notts, states that the illustration in this paragraph "repre-



sents a small steel 'cork-extractor,' which is very useful for many purposes on the dispensing-counter, and may be fastened to the counter by string

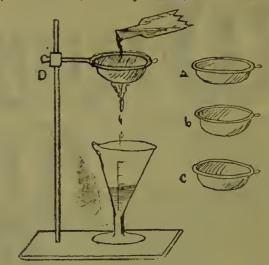
or carried in the waistcoat-pocket."

A little more information would have been useful, especially as to how the extractor is made. It is 4 inches long.

FILTERING-ARRANGEMENTS.

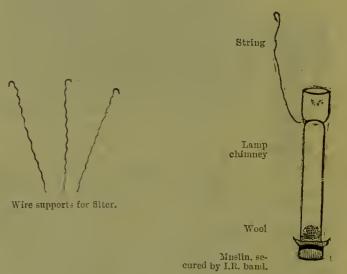
The following facsimile represents in A B C strainers made of horsehair in different degrees of fineness, to drop into the ring D, which is made of enamelled iron. The advantages are (1) that they are easily cleaned and give

(2) great saving of time. The sketch is sent by Mr. A. W. Nunn, 9 The Parade, Lower Sydenham, S.E.



A wire support for filter-paper is suggested by Mr. F. H. Glew. To make it:—"Coil some stout wire (pure tin or copper) round a pencil, then pull wire nearly straight; now bend one end into a hook to clutch edge of funnel." (Dettmar & Co., Poland Street, W., draw pure tin wire to order.)

Mr. Glew is also responsible for the "lampglass chimney" fitted as sketch.



A Funnel for increasing the Rapidity of Filtration, consisting of a funnel passing through a tapering indiarubber

ststing of a runner passing through stopper (to adapt itself to various-sized necks of bottles), and through this stopper an orifice to pass a tube connected to an indiarubber bulb fitted at each end with valves (an enema-bulb would do, but must be pretty strong). The bulb, on being alternately compressed and released, partially exhausts the air from the bottle, thus increasing the pressure on the fluid in the funnel. Mr. Bradford, 68 Queen's Gardens,



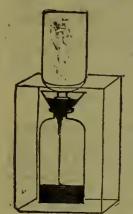
Hyde Park, W., is the contributor of this idea.

An Improved Double-funnel for filtration is represented



in the above sketch by G. W. Hodder, Frome. A is the outer funuel (a cone with concave sides) and B an exact

but stemless cone, with oblong perforations in it. C shows the two combined. Mr. Hodder says:—"There are perforations through lining to allow liquid to run more easily into



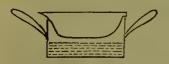
the outer funnel. I think if some-thing of this kind was adopted it would expedite the process of fil-tering."

The sketch reproduced here is for an appliance which Mr. A. Hill, 2 Costin Street, Bedford, finds most useful as a continuous filter. It is made as follows:—"Get a strong box-say, a stareh box (mine is 19 inches long, 14 inches broad, and 8 inches deep)-take off the lid, and in the centre of one of the ends cut a hole about 3 inches in diameter that will take a Winehester-quart neck nicely, and inside can be made to take anything from a Winchester quart to a small jug by means of The sketch explains the action."

blocks.

HEATING-APPARATUS.

"For water-bath work I recommend a Thuringian semiporcelain evaporating-basin, with good spout, glazed within, biscuit without, having a ridge or flange to suit the shallow

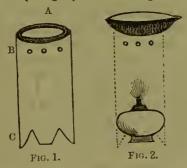


tin pan containing the water. Any tinman can make this, as it is merely a very shallow saucepan having two wire handles, but no cover. The most convenient size of basin

is the 9-inch, holding 3 pints. The facility with which the basin can be lifted out will be appreciated in use. It permits the ingredients to be weighed in it before or during the heating, allows the heating to be stopped the moment they are melted, and enables the finished preparation to be poured out with ease and certainty."—J. F. Brown, Dover.

Mr. H. W. Roberts, 204 Haverstock Hill, N.W., is responsible for the following:—

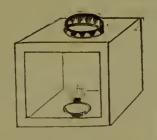
"An empty 1-lb. lanoline-tin inverted, with bottom cut out as at A, and holes bored as at B, and cut as at C. A spiritlamp underneath (as fig. 2), a small evaporating-dish on top.



A very handy utensil is made for heating small quantities of solutions, evaporating-extracts, or suppository-making, &c., as the heat is very gentle and easily regulated.

"Steam-bath for suppository or ointment making or keeping gelatine mixture warm in pill-coating (fig. 3). Use a $\frac{1}{2}$ -lb.





or 1-lb. patent lever-lid tin such as some firms supply coated pills in, choose a porcelain evaporating-basin which

fits the lid flange nicely, and the apparatus is complete." Mr. S. J. Elliott, Ashley Road, Southport, is the designer.

Mr. A. Hill, of Bedford, also submits a suggestion for a Cheap Spirit-lamp Stove. It may be made by cutting one of the sides out of a 1-lb. or 5-lb. vaseline-tin, and then fitting a 1_{3} -inch piece of tin over the mouth (fig. 4).

INFUSION-MAKING.

"To save time, heat, and labour in making small quantities of infusions, instead of pouring the boiling water over the ingredients in the infusion-pot, let it remain in the flask used for boiling it and put the ingredients into it. There is less cleaning-up to do afterwards."—M. A. Fergusson, 67 King Street, Stirling.

Another suggestion is sent by Mr. T. C. Richards, of Clifton, viz.:—"Weigh the boiling water direct from the kettle into the tared infusion-pot and contents. Water at 212° is used. No measures are eracked, and the mothod is accurate and speedy."

LABELS AND LABELLING.

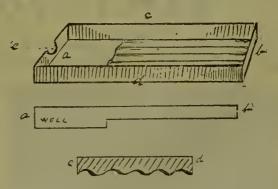
"Label-damper.—Get a piece of wood 1 or 2 feet long, or longer if necessary, and about 8 or 9 inches wide, and eover one side of it with spongio-piline. Damp the spongiopiline, then spread the labels on it and press them down slightly. This will be found very useful in places where there are a great many labels to damp."—R. J. Williams, 9 College Green, Towyn.

Mr. J. E. Vause, 297 Edgware Road, W., says that labels having no borders require no trimming, economise time, are more up-to-date, look better than old-fashioned ones, and facilitate work.

For Removing Labels "Permang," recommends a pad of thin and very flexible sponigiopiline, or some other material absorbent on one side, shaped as shown in the sketch, the extremities being connected by an elastic band; the absorbent side, saturated with water, may be placed over the soiled label of a bottle which has to be refilled, and kept there by the band encircling the bottle. This will enable the mixture to be dispensed whilst the label is being soaked off.



Another wrinkle comes from Mr. G. W. Hodder, of Frome; it also is for soaking labels of bottles quickly. The tray is made of tin or ware. A well at end a, with water to reach



label of bottle laid with its neek in the hole for the purpose, c. The bottom towards the end b to be cerrugated to support the bottle, so that water in the well may have free action. A cross-section of the corrugated bottom is shown

We shall continue the selection, and make the awards in an early issue.

IT is easier to make the Ethiopian change his skin or the leopard his spots than to get a steckjobber to forego his "turn." A well-known individual of this genus entered a chemist's shop at Brighton on Sunday afternoon, and asked for a box of liver-pills. "Yes, sir," said the proprietor, producing the package; "one shilling." "But you always let me have them at $10\frac{1}{2}d$.—store price." "Not on Sundays, sir." "Oh, well, I'll wait till to-morrow!"

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FRAGRANT-NON-POISONOUS-DO NOT STAIN. Kingzett's Sulphur Candles & Sulphugators, Preserved Peroxide of Hydrogen. Mercuric Bactericide, Eucalyptus Oils. Price Lists and Pamphlets Free.

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MUMFORDS FARRINGDON BOAD, LONDON, E.C. THE BEST THAT CAN BE PRODUCED. 1 cwt. carriage paid; or 7, 14, 4 28, & 56 lbs. free on rail Lond. 18/ CRUSHED LINSEED 1 cwt. earriage paid : or 7, 14, 4 28, & 56 lbs. free on rail Lond.; CLEANED LINSEED l ewt. earriage paid; or 7, 14, 4 28, & 56 lbs. free on rail Lond. 23/ STARCH POWDER PURE ewt. carriage paid; or 7, 14, 4. 28, & 56 lbs. free on rall Lond. FULLER'S EARTH (Light Colour) 16/ PURE 1 cwt. carriage paid: or 7, 14, 4 28, & 56 lbs. free on rail Lond. FULLER'S EARTH # CARRIAGE PAID to Rallway Stations within 200 miles of London (or allowance made for distances beyond) on a total weight of 112 lbs. and upwards of above articles

in every respect of the very best quality for drinking."— Percy F. Frankland, B.Sc., F.C.S. TABLE VAT Typically Perfect ." -Medical Press.

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Medical Press and Circular.

The have submitted a number of Fletcher's Concen-TRATED LIQUORS to a prolonged test, and we have had THE MOST SATISFACTORY RESULTS. Both in flavour and in medicinal properties they were equal to the best preparation we could prepare from fresh drugs."

Editorial Comments.

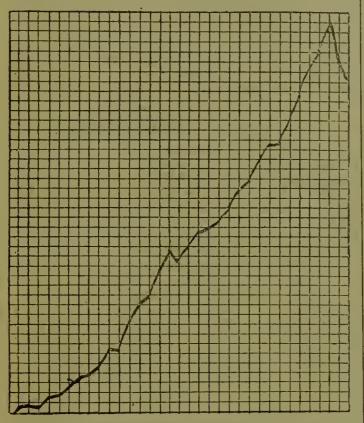
PATENT MEDICINES ON THE DECLINE.

THE report of the Board of Inland Revenue for the year ending March 31, 1894, shows that the decline of the patentmedicine trade, as evidenced by the statistics furnished as to the number of medicine stamps sold, is st.ll in progress. In the year ending March 31, 1892, the value of the medicinestamps sold reached the highest point it has ever tonchednamely, 240,0621, representing 38,409,920 three-halfpenny stamps. The drop occurred in the succeeding year. The value of the stamps sold in the year ending March 31, 1893, was 220,325l, equivalent to 35,252,000 three-halfpenny stamps. The further fall during the past year is much smaller. but it is large enough to be significant. The amount realised from the sale of medicine-stamps in the year ending March 31, 1894, was 213,210*l*, which would account for 34,113,600 three-halfpenny stamps. To show this graphically we reproduce on the next page the diagram which we gave last year illustrating the rise and decline of the stamped-medicine business from 1860 to the present year.

In the year ending March 31, 1893, the number of licences to sell these stamped medicines had increased by over 500to 27 209 in England, and 2,149 in Scotland-the development being traceable to the then recent regulation of the Board of Inland Revenue requiring a separate licence to be taken for each set of premises. Last year there was a slight decline in the number of licences issued in England-to 27,175; though Scotland showed a similarly small increase -to 2,189. It may be taken, we presume, that in England, at all events, a few grocers or drapers have abandoned the

We assumed last year that the fall in the business was due principally, if not entirely, to the interference with the trade by the actions taken against vendors under the Pharmacy Act. Doubtless these have had considerable influence-partly by scaring the public, but principally by stopping some of the channels of the trade. But it is difficult to assume that the 4,000,000 fewer packets sold in Great Britain last year, as compared with two years previously, were all poisonous preparations. To the extent that this is so, however, we are bound to admit that in a sense the statistics are to the credit of the manufacturers. They show that they were not, as was libellously alleged of them, in the habit of giving nothing but

a little flour and aloes, and trusting to advertisements only to sell their goods. The enorgetic way they have fought for the right to sell poisons freely proves that they at least had some faith in their formula. It is probable that they have a little slackened their efforts latterly, hut with a general revival of prosperity they may be depended upon to stir again vigorously. The trade is too tempting, and put-up



This diagram represents the progress of the revenue from medicine-stamps from 1860 to 1894 inclusive. Each square indicates 5,0007. The revenue for the year ending March 31, 1860, was 43,6927. That was the first and the lowest of the series. The highest point touched was in the year ending March 31, 1892, when the revenue amounted to 240,0627. In the year ending March 31, 1893, it fell to 220,3257, and in the year ending March 31, 1894, to

medicines are too generally popular, to drop into desnetude, and that there is ahundant room for development is evident from the figures we have given. Large as they sum up they only represent a single packet of a stamped medicine per head of the population per annum in Great Britain—a proportion which is not nearly so large as many observers would have anticipated.

A CHEMISTRY SYMPOSIUM.

THE completion of Watts's "Dictionary of Chemistry," as re-edited by Messrs. Foster Morley and Pattison Muir, is an event above the ordinary in the progress of English chemical literature. The successful ending of a seven-years' task is a matter for congratulation of the workers in any case, but there is in the "Dictionary" a cosmopolitan element which raises it above insular significance, for chemists and physicists of the American and Enropean Continents have contributed to make the "Dictionary" a thorough expository of chemical science as it is to day. Early in 1888, when the first volume was issued, we pointed out that Watts's "Dictionary" is a book of a century, a development of Ure's "Dictionary," first issued in 1809. From this work, which had gone through several editions, there was a split-off in 1863, the late Mr. Henry Watts taking the purcly scientific part of Ure and making it into a separate work, which ultimately

extended to nine volumes, with supplements. Again, in a quarter of a century, when a new Watts was required, the splitting-off process was found to be necessary, and Dr. T. E. Thorpe took the technical portions and formed them into the three goodly volumes which constitute the "Dictionary of Applied Chemistry." Perhaps there is no more valuable tribute to the utility of chemical research than we have in this hibliographic differentiation. Thus, in 1863, most of the work which we find in the synthetic-dyes sections was not regarded as "applied" chemistry, but now it is Thorpe's work alone which treats of them fully, and a comparison of the dictionaries shows that in many other departments there is the same advance from the theoretical to the technical.

Another, and very important, advance is apparent in the higher plains of theoretical chemistry. In Mr. Watts's day, chemists, as a body, had scarcely got beyond the flack and test-tuhe stage in their study of the chemical properties of matter, and even at present there are amongst us chemists who regard chemical evidence as superior to everything in dealing with the constitution of compounds. Gradually, chemists, in common with other scientists, have come to recognise that there is no such thing in nature as individual sciences, for it is only for the convenience of man and the henefit of knowledge that science has been split up into branches. For Matter there is nothing of the kind; it is subject to all the forces of nature—those forces which men stndy in different hranches of science—and it is not by the study of one series of peculiarities (eg., the chemical), but of the whole, that chemists will he able to unravel the mysteries of chemical compounds, if not of Matter itself. Hence the great importance, in such a scientific work as Watts's "Dictionary," of adequate treatment of collateral hranches of knowledge. Thus, in the fourth volume, amongst the special contributions are articles on Capillarity, hy Dr. J. W. Capstick; on Refraction and Dispersion, hy Mr. George Gladstone; on Optical Methods, hy Professor Noel Hartley; on Electrical Methods, hy Professor Ostwald; and on Specific Volumes, hy Dr. T. E. Thorpe. In the previous volumes similar articles appear, and one extremely valuable feature of the monographs and notes on substances in the "Dictionary" is the great care with which the Editors have brought together the chemical and physical constants of the suhstances. As yet we see as through a glass darkly the meaning of all that is being done for chemistry in these special directions, and it may he that in our enthusiasm we are inclined to helittle the old theories which do not square well with modern methods; hut the object of all research is to get at facts, and theories are only a form of temporising. The physical methods which are now used in the study of chemical compounds hring us nearer to the truth in regard to their constitution; this in many cases will lead to the synthesis of the compounds, and—we hope we are not too sanguine-to the plan of their creation.

If it were for nothing else than their appreciation of the tendencies of chemical theory and the way they have provided for its exposition, Messrs. Morley and Mnir are to be congratulated on their editorship of the "Dictionary." But there is much hesides that for which they deserve the thanks of chemists. The whole work has been carried out consistently on the plan laid down at the beginning, Dr. Morley doing the organic parts, and Mr. Muir the inorganic. The methods of extremo condensation which they adopted have much increased the utility of the "Dictionary." We have never found any difficulty in interpreting the abbreviations used, and have rarely been disappointed with the information given on specific substances. In many instances large groups of hodies are dealt with hy specialists. For example, in the fourth volume Dr. Rideal writes on Tannins,

and Professor Tilden on Terpenes; but the fact should not be overlooked that the Editors have done the lion's share of the work, and their articles hy no means take second rank. There are 3,292 pages in the four volumes, the last one containing 922 with an inorganic chemistry supplement. The whole of this work should stand good for the next twenty years, and with a supplement overy five years it will keep chemists supplied with adequate working references.

PURE AND FRAUDULENT DRUGS.

In a recent report to the West Riding County Council, Mr. A. H. Allen, the public analyst of that district, makes some cogent remarks on the analysis of drugs and the difficulties in connection therewith, which we reprint on another page. Public analysts have lately manifested such an evident desire to be fair to traders, and, in regard to drugs especially, have become almost teachable, so that sympathy and co-operation between them and pharmacists is becoming as possible as it has always been desirable. It is entirely to the interest of the better class of pharmacists that the Sale of Food and Drugs Act should be effectively administered; but an essential preliminary is that the analysts, on whose judgment and skill so much reliance must be placed in any prosecution, should be able intelligently to appreciate the position of druggists in regard to the supply of remedies to the public, as well as to be familiar with the best methods of analysing these. A druggist's stock consists of some 1,500 or 2,000 articles and compounds. It is impossible in the nature of things for all of these to be in a state of purity, and it may be that the medicinal virtues of some of the articles depend on their impurities. Besides, the public have inherited traditions from their parents and grandparents about medicines which it is not the business of the public analyst, any more than it is of the druggist himself, to root up. That may or may not be the province of the doctor and of the schoolmaster. On the other hand, amid the multitude of mysterious articles old and new, which the druggist deals in, the opportunities afforded for substitution, for adulteration, for fraudulent reduction of quality, are innumerable. It should be the desire of both sides to suppress all forms of fraud sternly, without, at the same time, inconveniencing legitimate sales and purchases.

Mr. Allen shows some of the technical difficulties which present themselves to an analyst in regard to galenical preparations. He points out particularly that no Act of Parliament has ever laid down that even the British Pharmacopœia is to be taken as a standard from which there is no appeal. This is true, but there is very little grievance in this. The Pharmacopoeia is accepted by all Courts as almost conclusive evidence, sometimes even to the extent of unjustly interfering with ordinary trade—as, for example, in the case of soda-water. And until chemists have a direct vote in the compilation of that work, so that the unwise adoption of formulæ and synonyms for well-known preparations can be efficiently checked by them, it is not desirable that the Pharmacopæia should have a greater legal influence than it has at present. Mr. Allen also complains of the absence of any authoritative definition of such a product as extract of malt, of the refusal of the chemists of the Somerset House laboratory to indicate their methods of testing, and of their allowances of deficiencies, especially in regard to such substances as tincture of rhubarb and ground ginger. He finds, for instance, in a sample of the latter an addition of 5 per cent. of extrancous matter, sand, or sweepings, but this, he says, is reported by the Somerset House chemists to

be not in oxcess of that which may be met with in genuine powder.

Wc do not, by any means, judge between these experts. What we wish to point out is that the complaints raised suggest a most important and useful work for the Pharmaceutical Society's Research Laboratory. When that institution was founded it was fully expected that it was in such practical directions that work would be guided. If it had been, by this time the Laboratory would have become the recognised authority on the purity of drugs and medicinal preparations, and it would have had a great chance of superseding Somerset House as a board of reference in disputed analyses of drugs. Is it too late now for some such development of its usefulness?

THE ANTITOXIN TREATMENT OF DIPHTHERIA.

The British Medical Journal is publishing reports from various parts of the country of the employment of the antitoxin serum in the treatment of diphtheria. In a very large proportion of cases complete success has attended the method. Dr. Watkin Hughes, for instance, reports that during the present severe epidemic of diphtheria at Barnham Broom, Norfolk, he has attended 40 cases; of the first 30 treated by ordinary methods 10 died; in the next following 10 cases, which were very severe, the serum treatment was used, and every patient recovered after a single injection. To obtain the best results experience already accumulated proves that the treatment must be adopted atan early stage of the disease; but at the present time there is considerable difficulty in obtaining a sufficient supply of the serum. There is extreme difficulty in obtaining the smallest supply, and we learn from Messrs. A. & M. Zimmermann that they find it utterly impossible to meet the demand for Dr. Aronson's antitoxin for the most pressing cases. They inform us that the makers, Messrs. Schering & Co., of Berlin, have at present about 100 horses under treatment by Dr. Aronson, and they report that the scarcity will probably continue until January next, as the ordinary time for rendering horses immune is estimated to be from twelve tofifteen months.

CANADIAN APOLLINARIS.

The owners of Apollinaris must look to their rights, for the Montreal Pharmaceutical Journal announces that at Radnor Forges, P.Q, the property of Messrs. Drummond, McCall & Co., a short time ago, when searching for water, "a magnificent spring of Apollinaris water was discovered. The water comes gushing up, sparkling, icy cold, and charged with the most valuable ingredients that a mineral water can possess. The expert analysis shows that 'Radnor' is pure Apollinaris, with the exception that, whereas the Old World water must needs have sodium added, our own water possesses it naturally." We cannot decide whether to regard the announcement as a joke or a trade note, but in any case "Radnor" cannot be "Polly."

TRADE-MARKS IN GERMANY.

The managing director of the Trade-marks Society (Limited) writes to the *Times* to point out the importance for transferring German trade-marks as soon as possible from the Leipsic to the Berlin register. Under the old law, which is no longer in force, it was very difficult to obtain redress against an infringer, as it was necessary for the registered owner of the trade-mark infringed to prove that the infringer actually knew that the trade-mark was a registered one. Under the new law, which came into force on October 1, this is no longer necessary if the mark has been transferred to the Berlin register, so that, in those cases where British manufacturers formerly failed to restrain in-

fringement by reason of the above requirements as to proof of knowledge, they can now succeed without any difficulty provided their marks have been transferred.

THE EIGHT-HOUR DAY IN THE CHEMICAL-TRADE.

Mr. Brunner, M.P., of Messrs. Brunnor, Mond. & Co, has been addressing his Northwich constituents on the eighthour day at their extensive works at Winnington. November, 1889, the change was made, with a fall of 10 per cent. in wages. In January, 1891, the reduction in wages was abandoned. After four years' experience of the eighthour system it has been found, with regard to the wages per ton of products, that the men got the same wages for eight hours as they formerly did for twelve hours, hut the cost per ton in wages was not more than in 1889. Mr. Brunner believes that a considerable part of the improvement was due to the greater efficiency of the men and a considerable part to improvement in the plant. It has been found, as might have been expected, that with the reduction of hours there is a corresponding reduction of invalids. In the quarter beginning July, 1889, the percentage of men receiving sick pay was 7—that was to say, seven men in every 100 were on the club. In 1893, in the corresponding quarter, the percentage of those who received sick pay was only 5. In 1889, in the same quarter, the number who were attended by the doctor equalled 10 in every 100, while in 1893 it was only 5 per cent. That was a reduction of 50 per cent. It may be assumed, too, that those who neither went on the sick list, nor were attended by the doctor, were also more fit for their work.

EXPORT OF TINCTURES.

The business in the export of tinctures and other spirituous preparations, which was so advantageously encouraged by the institution of allowance as drawback by the Board of Inland Revenue some five years since, seems to he still progressing. In January, 1893, we published a table showing, from figures which had heen specially supplied, how the exports had developed at that time. In the first complete year (April, 1889, to March, 1890) drawhack was allowed on 9,714 proof gallons. The next year the quantity exported under drawback amounted to 13,031 proof gallons and in the year ending March, 1892, it had advanced to 20,896 proof gallons. We have no later statistics, hut in that year (April, 1891, to March, 1892) the number of samples analysed for purposes of drawback was 3,819. The next year there seems to have heen but little extension, if we may judge from the samples, which then numbered 3,876, but last year (April, 1893, to March, 1894) the samples tested numbered 5,575. This looks as though the export of British tinctures had been largely on the increase, especially if our information is correct that the tendency has been of late towards taking fewer samples. In that case the quantity now exported must be approaching 40,000 proof gallons. It may he stated that in the experience of large exporters the average proof gallons approximate very closely to bulk gallons, as the over-proof and under-proof tinctures, &c., fairly balance.

PHARMACEUTICAL CHEMISTS AND JURY-SERVICE.

The letter from Mr. Lloyd Williams which we publish this week raises a point of considerable importance. That gentleman is one of the staff-chemists at Messrs. Burroughs, Wellcome & Co.'s factory at Dartford, and of course he is engaged in conducting pharmaceutical experiments or pharmaccutical operations every day. Naturally he claims exemption from jury-service. The Juries Act, 1862 (25 and 26 Vic. c. 107), grants such exemption to "all registered pharmaceutical chemists actually in practice." For some mysterious reason the Dartford Magistrates appear to have arrived at the opinion that Mr. Williams is not a "pharmaceutical chemist actually in practice." We are never surprised at magisterial decisions, hut what is astonishing is that the Pharmaceutical

Society should, through its Secretary, apparently endorse their view. Mr. Williams gives, as a quotation from the courteous reply of the Registrar, his expression of opinion that "the magisterial decision is quite according to law. The exemption extends only to pharmaceutical chemists actually in practice, which you most undoubtedly are not." Why is he not? The Secretary means probably that Mr. Williams is not engaged in retail business. But the Act of Parliament says nothing about retail business, and Acts of Parliament mean exactly what they say, no more and no less. The decision affects a great many pharmaceutical chemists who have gone outside retail business, but who believe they are still pharmaceutical chemists actually in practice; and the Pharmaceutical Council will be neglecting the interests of these constituents if it does not take steps to ascertain the exact interpretation of the section in the Act which has been of so much importance to the Society.

CHLOROFORM VERSUS ETHER.

In the Westminster Gazette for October 8 appears an article from "F.R.C.S." on the question whether chloroform is a safe an:esthetic. The writer, who evidently hails from "Bart.'s," brings forward statistics from the records of that hospital. From these records we learn that from 1879 to the end of 1892 the total administrations of anæsthetics of all kinds was 48,188. Out of these cases 17 deaths occurred, an extremely small percentage. The records, moreover, show how the fashions in anæsthetics have changed during those years. In the first three chloroform was nearly always employed, but in 1882 ether sprang into prominence, increasing in popularity up till 1834, and from that year till 1888 it was nearly level with chloroform. During 1882 the most surprising advance was in the use of a mixture of nitrons oxide and ether, no fewer than 1,076 patients being anæsthetised with the mixture in that year. The method was suggested by the late Mr. Clover, hut did not last long, and in 1892 the mixture was only given 73 times. During the last few years ether has dropped behind, and chloroform is now used twice as frequently as ether. The question as to the safety of chloroform is a vexed one, and many hold even now that ether is the safer substance. . Before the publication of the report of the Hyderabad Commission the rule was, Watch the pulse in chloroform, the breathing in ether, administration. The Commission, however, laid down that in chloroform-administration the pulse may be left to take care of itself, and that the breathing should be looked to. "It is significant," remarks the writer,

that since the insistance of this Commission upon the trust-worthiness of its statements, the dcaths from chloroform seem to have multiplied. But the teaching of the numerous fatalities from chloroform is undeniably this: inasmuch as experience shows that there is a great number of persons to whom the fear of undergoing an operation is absolutely nothing in comparison with the dread of having an anæsthetic, the rule should he to give all such persons, wherever possible, ether instead of chloroform.

It is a pity that the writer has not specified in his statistics how many deaths were due to chloroform and how many to other anæsthetics.

A STANDARD FOR SAUSAGES WANTED.

Mr. Alfred W. Stokes, public analyst for Hampstead, has had the courage to analyse a London sausage, bought off a street-stall, and gives the following reassnring report on it:— "It was found to consist of—hread, seven-tenths; fat, two-tenths; and one-tenth by weight of flesh meat, with a little seasoning and a little vegetable colouring-matter. This last was added to cover the ahsence of meat. Such sausages are being sold in other districts of London just now. Till we get a legal definition of a 'sausage,' it is doubtful whether the Food and Drugs Act will touch the vendors of such concoctions." What has upset Mr. Stokes? Is ho disappointed at not finding tho bow-wow?

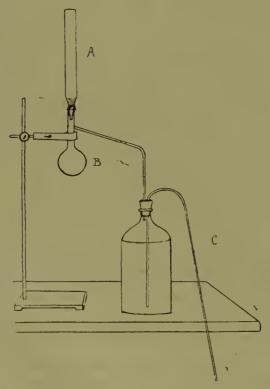
THE TREATMENT OF EMULSIONS FORMED IN THE COURSE OF ESTIMATING ALKALOIDS.

By ALEXANDER GUNN.

THE formation of cmulsions during the process of extracting alkaloids for for estimate ing alkaloids, &c., for estimation is frequently a serious difficulty to contend with. Many operations which might be simply enough carried out are often complicated by preliminary treatment to get rid of guminy and other matters likely to cause emulsion. Although there may not be much objection to such treatment as precipitation by lead acetate, subsequent elimination of excess lead by sulphuretted hydrogen and then warming, the fact remains that much collecting and washing of precipitates involves the possibility of error either by direct loss or by decomposition. In this present note, however, I shall confine myself to the chief point—the breaking-up of the emulsion. After a number of experiments I have come to the conclusion that filtration under pressure is the most satisfactory method of dealing with the difficulty, and I recommend the apparatus shown in the sketch as a convenient and simple means to that end.

Some cinchona liquid extracts give very great trouble in this respect and almost defy estimation. It is in cases of this kind where the filter will be found useful. I tried a cinchona emulsion which had been set aside as unmanageable. It had stood for over two weeks and was still quite pulpy. The result of filtration was all that could be desired. The liquids were beautifully bright and the separation perfect.

A reference to the accompanying figure will show at a



glance how the filtration may be effected. The contrivance is so simple that it can be fitted up at a moment's notice. The tube A is of about 1 inch diameter and 7 or 8 inches long, drawn out to a narrow opening, about $\frac{1}{4}$ inch or less in diameter, to act as a percolator. A small plug of cottonwool is lightly inserted in the constricted part and then a layer of dry paper-pulp of about $\frac{1}{2}$ inch in depth, also lightly packed. An ordinary fractionating-flask, B, is used, because, whilst acting as a receiver, it admits of easy connection with the aspirator and is always at hand. A is connected to B by means of a rubber-cork, or preferably by a piece of $\frac{1}{2}$ -inch

rubber tubing slipped over the point of A, which is then inserted into the neck of B. A connection is now made with C-a Winchester quart filled with water and fitted with a syphon. The emulsion to be broken up is placed in A and the syphon c set going. When the mixed liquids have run through into B they are carefully placed in a separator and the solvent drawn off. A second washing being probably necessary, the alkaloidal liquid is shaken up with a fresh portion of solvent. This second mixture will most likely separate spontaneously, in which case it will only be necessary to wash the solid matter in A with some fresh solvent; but if it should not do so, the filtration is repeated, and in any case the filter residue is finally washed. The filtration of very bad emulsions may be slow, but the separation is complete, and that of course is of paramount importance. Nothing gives the operator so much confidence in his results as sharply-defined separations of the solutions. The most important point in using the filter is to sec that there is not too much paper-pulp in A, as that tends to retard filtration; a 1/2-inch layer of the dry pulp, rather less than more, will be found sufficient.

In extracting alkaloids I consider that it is necessary that the solvent and liquid to be exhausted should be thoroughly shaken together. Under certain conditions emulsions are formed of a more or less inscparable nature as a result of the shaking. In estimating extracts of nux vomica, for instance, a vigorous shaking would be fatal to the chances of spontaneous separation, and a too careful agitation might mean an incomplete extraction of the active principles. I have more than once seen an estimation of the B.P. extract of nux vomica conducted in such a way as to create the impression that the operator had a greater regard for the avoidance of emulsion than for the extraction of alkaloids. My suggestion, therefore, in the case of extract of nux vomica, as in other drugs, when so much depends on a correct statement of the amount of active matter present, is to give the mixture of solvent and alkaline fluid a thorough shaking, regardless of the risk of forming a bad emulsion, then filter, and, as recommended by W. Duncan, for nnx vomica give three washings with chloroform.

Some such arrangement as that I have described may already be in use by many chemists, but I do not recollect having seen filtration specially advocated for troublesome emulsions. The contrivance I suggest, however, has the advantage of simplicity, and is therefore worth trying.

My acknowledgments are due to Messrs. Fletcher, Fletcher & Stevenson, in whose laboratories the experiments in connection with this note were conducted.

New Books.

THE following new books of interest to readers of THE CHEMIST AND DRUGGIST have been published recently. Mention of a publication in this list does not preclude & subsequent review of any book.

Brestowski, A. Handwörterbuch der Pharmacie. Parts 17 (Pastellfarben-Polykohlensäure) and 18 (Polymer-Rhodium). Large 8vo. Paper eovers. (Wm. Braumülief, Vienna and Leipzig.)

Hovenden, Fred. What is Heat? A Peep into Nature's most hidden Secrets. Demy 8vo. Pp xviii and 350. Hiustrated. (Whittingham & Co. t

New Tariff of the United States; with the necessary Consular Instructions and Regulations, Money Conversion Tables, Names of United States Consular Officers List of Ports, &c. 8vo. 1s. (Shipping World Office.)

Newth, G. S. A Text-book of Inorganic Chemistry. Demy 8vo. Cioth Pp. xiv. and 667, with illustrations in text. 6s. 6d. (Longmans & Co.)

Pattison-Muir, M. M., and Morley, H. F. Watts' Dictionary of Chemistry. Revised and entirely rewritten. Vci. IV., PH-Z with addenda. Large Svo. Cloth; leather back. Pp. xii. and 922. 31.3s. (Longmans & Co.)

Tables of Doses and Strengths of the British Pharmacopaia. By the Middlesex College of Chemistry. 32mo. Llmp, 6d. (Baidlère.)

Legal Reports.

ACTIONS UNIER THE PHARMACY ACT.

SITTING at the Wardsworth County Court, on Monday, his Honour Judge Lushington had in his list several summonses, issued at the instance of the Pharmaceutical Society, against tradesmen living in the district, for penalties under the Pharmacy Act of 1868 for selling poisons in articles in which they deal in the ordinary way of their business, they not being duly qualified chemists and druggists. Two or three of the cases were settled out of Court by defendants paying the penalties.

In a complaint against Messrs. Hollis & Co., oilmen, of the Wandsworth Road, for selling mouse poison which contained strychnine, the defendants, finding they had inadvertently broken the law, paid the penalty of 5l. into court. On the Court Registrar taking his seat, application was made to him, on behalf of the Society, for costs in addition to those paid in covering the summons, on the ground that the payment was not made in time to prevent the attendance of the approving witness and the other officials. The application was granted.

In two other cases of unqualified sales against Mr. Briggs, of Battersea, and Mr. Moore, of Putney, Mr. Grey, barrister, who appeared for the Society, applied to his Honour, shortly after 4 o'clock in the afternoon, saying he had been in court all day waiting for the hearing, and from what he gathered there seemed no probability of these cases being reached at the present sitting. Both defendants were in court, and he would ask his Honour formally to adjourn the hearing. Mr. Briggs said he did not object; but Mr. Moore at first objected, on the ground of the inconvenience of having to attend again. His Honour said defendant could wait, if he desired, till the rising of the Court; but there did not seem to him the least probability of the cases being reached that day. Defendant thereupon consenting to the adjournment, the hearing was adjourned accordingly.

The cases were again heard on October 10, when Robert Briggs, 65 Battersea Park Road, first appeared. He was sued by the Pharmaceutical Society for two penalties under the Pharmacy Act, for, as an unqualified person, selling articles containing poison.

Mr. Grey, who appeared for the Pharmaceutical Society, said the defendant held himself out on his handbills as a chemist, trading as "Briggs & Co., chemists," and he should prove that he had sold Powell's balsam of aniseed, a preparation which contained morphine, one of the poisons scheduled in the Act. The general aims of the Act had been clearly described by Mr. Justice Hawkins in a case, the substance of which he quoted, to the effect that it prohibited the sale by unqualified persons of the poisons mentioned in the schedule, of which morphine was one.

His Honour (to defendant): What is your defence? Defendant: I don't know. Q: Did you sell this compound? A.: That I don't know. Q.: You don't say you are a registered chemist, do you? A.: Oh, no.

Mr. Grey went on to say that Powell's balsam had formed the subject of many actions during the past few years, and in 1894 a case in all respects similar to this went to the Court of Appeal, on whose decision he relied; besides which there was another case of the Pharmaceutical Society against Piper, to which he would direct his Honour's attention. In that case it was proved that there was poison to the extent of 1 gr. per floid ounce; but in the present instance it would be proved the quantities were as high as $\frac{1}{5}$ and $\frac{1}{6}$ gr. to the fluid ounce. He called

Mrs. Sarah Partridge, wife of Jno. Partridge, of Brixton, who proved that on July 27 she called at defendant's shop and asked him for a bottle of Powell's balsam of aniseed, with which he supplied her, and she paid him $10\frac{1}{2}d$. for it. She took it home with the seal unbroken, and kept it under lock until she handed it to the analyst for the Pharmaceutical Society. She did the same on October 3, and she now produced both bottles and identified them.

In answer to his Honour, witness said she was requested by a representative of the Pharmaceutical Society to purchase these bottles. Defendant's name was not on either of them.

Mr. Ernest John Eastes said he had analysed the compound in the bottles, which he received sealed. One contained gr. of morphine to the fluid ounce, the contents of the tottle, and the other ½ gr.

His Honour: What, in your judgment, would he the effect on a child of the administration of this? Witness: If it were

a young child it would be fatal.

Defendant: How am I to know the contents of the bottle? It doesn't say that it contains a poison. I pay a patentmedicine stamp-duty, and I picduce a hottle of chlorodyne to show that it says it contains poison, but this doesn't.

His Honour said that was very likely, hut it did not affect the case. Possibly he did not know that it was a poison, but that did not remove the fact or his responsibility for selling it.

Defendant: If I sold it it was in ignorance of the law.

His Honour: But you are supposed to know the law or, at

any rate, you must not break it.

Defendant: I pay a patent medicine licence. His Honour: All that is admitted, but it does not affect your case. These things are not to be sold by unregistered and not duly qualified chemists.

Mr. Grey having put in the register to show that it did not contain defendant's name, and, in reply to his Honour, said the penalty was 5l. for each offence, and there was no

discretion to reduce that penalty.

His Honour told defendant he should have thought he understood the law applying to these cases, which had now become well known. Every point that he had suggested as in his favour had been already argued in the superior Court, whose decision was binding on him. He had called this a patent medicine; but it was not that, it was a proprietary medicine. However that might be, it was no answer to the case. Defendant had sold a preparation containing poison, and this, as it proved, in even a larger quantity than in the cases in the Court above which had been cited, and he must impose in each case a penalty of 5l.

On the application of Mr. Grey, who said defendant was here at the court in April for the sale of poison, and then penalties were imposed on him, his Honour ordered costs

under scale A (over 101.).

Mr. Grey then said he also appeared for the Pharmaceutical Society on a summons against J. Moore, a nurseryman, residing at 261 Upper Richmond Road, Putney, for a peralty for selling a gallon of Smith's weed-killer, which contained $2\frac{3}{4}$ lbs. of arsenic. He was proceeding to point out the law in the matter, when his Honour said he thought he need not trouble him in that respect; but he might call his witnesses

Mr. John Partridge, commission-agent, hushand of the witness in the last case, said hy direction of the Pharmaceutical Society he called at defendant's on July 29 last, and bought of him the gallon of weed killer produced, which he poured from a larger can, containing, perhaps, ϵ ix or seven gallons. He paid him 2s, 3d. for it, took the receipt produced, and kept the can under lock until he handed it to the analyst.

Mr. Eastes said he analysed the contents of the can, and found it contained nearly $2\frac{3}{4}$ lbs. of arsenic.

His Honour: How many persons would that poison?

Witness: Eight or ten thousand.

Defendant said he would simply state his case. He was a small florist, and some five or six years ago, he thought,. at the suggestion of a customer, he obtained some of this killer, and having used a portion put the rest on one side. When the last witness called on him, and asked had he got any weed-killer, he said he thought he had somewhere. the course of a fortnight or three weeks he came again, and witness, having meantime looked up the can, supplied him, not knowing or thinking that he was doing wrong. He so little knew the price that he got a catalogue to see what to charge for it, and he was very much surprised subsequently to get a letter from a firm of solicitors claiming penalties. He wrote them back that he thought they had made a mistake, as he could not understand it. He thought the witness was a gardener, and that there could be no harm in selling him a portion of the killer. He did not keep a shop, or anything of the kind-in fact, things were so bad that he was trying to get a situation, and if a penalty were imposed on him he really could not pay it. He thought the whole proceeding cruel. and was perfectly innocent of any idea of doing wrong;

and had the witness told him he was so acting he certainly

should not have dreamt of selling the stuff to him.

His Honour said he feared he had no discretion in the matter. The defendant appeared to have acted in ignorance, and he did not know whether Mr. Grey's clients had, or had not, any discretion as to enforcing the penalty which he must order.

Mr. Grey said he was not sure that they had any disoretion, but he thought they were hound rigidly to administer the Act; and only this week a case had heen reported to them of

death through taking one of these weed-killers.

His Honour said defendant having sold a poison he was hound to order the penalty of 5l, and, hard as it might he on him, no doubt it was necessary that the public should be protected by these prosecutions. He would, however, allow defendant fourteen days in which to pay.

Defendant left the court saying he had not the money.

MR. COMMISSIONER KERR ON "PILLS" AND "QUACKERY."

ON October 10, in the City of London Court, before Mr. Commissioner Kerr, the Local Time-table Company (Limited), of 11 Queen Victoria Street, songht to have Mr. J. Tucker, herhalist, of 6 Goodrich Road, East Dulwich, committed for non-compliance with an order of the Court to pay the snm-of 6l. 18s. 6d. due for advertisements inserted in local time-tables circulating in his neighbourhood. The plaintiffs' representative, Mr. Cuthhert Russell, said that the defendant was a manufacturer of patent medicines, which he advertised extensively.

Mr. Commissioner Kerr: That is the only way they get rid of that stnff. (Laughter.) Everyhody advertises them now-

adays.

Mr. Russell: But they ought to pay for their advertising,

your Honour.

Mr. Commissoner Kerr: I do not know that. I would make the people who insert mischievous advertisements of that kind pay for them. I could mention a pill which is advertised a great deal. I would make the persons who insert those advertisements pay for them by way of compensation to the public.

Mr. Russell said the defendant advertised some lotion. Mr. Commissoner Kerr: It never fails, I suppose? They

are all alike in that way. (Langhter.)

Mr. Russell said the defendant paid for nothing.

Mr. Commissioner Kerr said it was no nse telling him that the defendant advertised largely if he never paid the people. That was not evidence of means.

Mr. Russell: Not until he is compelled to.

Mr. Commissioner Kerr said if he were to make orders for committal simply hecause men would not pay without, that would he reinstituting imprisonment for debt, which had been abolished. He could make no order against the defendant, as there was no evidence of his means to pay. Addressing the plaintiff he added: Don't insert these advertisements without the cash. You ought to have sufficient good sense to put an end to quackery as far as you can.

A QUESTION OF CONTRACT.

On September 19, in the City of London Court, hefore Mr. Commissioner Kerr, Mr. Hapke, glacose merchant, of 37 Mark Lane, E.C., sought to recover 41.11s. 3d. for glucose supplied to the Orient Company (Limited), of Lower Shadwell. The claim was not in dispute, hut the defendant company raised a counterclaim for damages against the plaintiff for an alleged breach of contract. Mr. Hollond, who appeared for the defendants, said that on August 1 the plaintiff sold them ten casks of glucose at 10s. 9d. per cwt., hut subsequently refused to deliver it. The defendant company had to huy elsewhere at the expiration of what was understood to be the prompt—namely, fourteen days—and they had to pay 12s. 9d. per cwt. for it. They therefore claimed damages. Mr. Tattershall, for the plaintiff, said there was no contract. Several letters passed, but the parties never agreed as to terms. Mr. Commissioner Kerr, after reading the correspondence, said that there was no completed contract. Mr. Hollond said the plaintiff wrote to them saying, "I book you ten casks for cash." Mr. Commissioner Kerr pointed out that the defendants said they must have fourteen days. The plaintiff told the defendants they could not have fourteen

days. He must find for the plaintiff on the claim, and he would reserve the counterclaim, so that if the defendants were advised to bring another action for their damages they could do so. If they did they would probably lose, hat the solicitor who advised an action to be taken would not care, because he would get his costs out of the defendants.

THE LIABILITY OF CARRIERS.

In the City of London Court, on October 9, before Mr. Commissioner Kerr, Mr. Joseph Gionta, of 140 Waterloo Road, sought to recover 10l. for damage done to a cask of olive oil through the alleged negligence of a carman employed by the defendants, Messrs. Israel & Joel, carriers, of 30 Fenchurch Street, E.C.

Mr. E. B. Tattershall appeared for the plaintiff, and Mr.

P. T. Blackwell for the defendants.

Mr. Tattershall said that on July 9 last the defendants delivered to the plaintiff as carriers a 56-gallon cask of olive oil. The defendant's carman in getting the oil out of his van caused the cask to hreak in one or two places, with the result that oil to the value of the amount claimed was wasted. As the plaintiff had paid for the oil he claimed damages from the defendants.

Mr. Blackwell said the defendants could not be held liable under the circumstances. There was no dnty on the defendants towards the plaintiff, and if there was then the oil was only taken off the van at the express request of the

plaintiff, who must take the risk.

The plaintiff and his daughter gave evidence. The latter said that when the defendant's carman presented himself she told him she would take the cask of oil. She saw him roll it from the front of his van to the back, and then he deliberately threw it on to the road. In doing that he loosened three hoops and the oil commenced to run out. There was a great quantity of oil on the pavement, and at last, with the assistance of a man, the carman succeeded in standing the cask up. He carried it through their premises to the warehouse, and a great deal of it was lost in that way. In cross-examination the witness said it was not true that the defendant's carman said he would want the assistance of a man to get the oil into the premises off the van. She did not tell him to do the hest he could, or that she would give him something for himself. The carman was not soher at the time. There was no truth in the suggestion that there was only a pint of oil spilled.

Mr. Tattershall then put in some documents showing that the defendants were employed by the plaintiff to deliver the

oil, and that he had paid the charges.

Mr. Blackwell said the defence was that when the defendant's man took the oil to the house he had completed his duty on behalf of the defendants. Carriers were not bound to carry goods from a van in the street to the house of the person for whom the goods were intended.

Mr. Commissioner Kerr said he must hold that carriers were obliged to put goods on the pavement safely. That had not heen done in this case. He knew the plaintiff's witness had said that the cask was deliberately thrown down. That was only the exaggeration of a woman. He did

not pay any attention to it.

Mr. Blackwell said that if the Court was against him on his view of the law of the case, then the only remaining question was the amount of damages to which the plaintiff was entitled. To claim the sum of 10l. was unreasonable.

Mr. Commissioner Kerr said olive oil was very valuable.

The defendant's carman, named James Beeson, was called, and denied that he was in any way the worse for drink. He did not throw the cask down as had been stated. He let it down on to some tarpaulin, and not more than a pint was lost.

An independent witness was called to say that the

spilled oil did not cover more than one flagstone.

Mr. Commissioner Kerr said it was owing to the defendants' carman's carclessness that the accident happened. He must find for the plaintiff for the amount claimed. Judgment accordingly, with costs.

ADULTERATED LINSEED MEALS.

AT Dumfries Sheriff Court on October 5, James Macdonald, chemist and druggist, was charged under the Food and Drugs

Act with selling $\frac{1}{2}$ lb. of linseed meal, which was admixed with starch Mr. T. McGowan, solicitor, on his behalf, admitted that the linseed meal sold contained barley starch, but explained that there was nothing deleterious in the mixture; and he was informed that in order to obtain the requisite fineness, it was necessary that the millers should add barley or wheat in the process of milling. In this case it was common linseed meal which was sold, which was only half the price of the best linseed meal. Mr. Macdonald was not aware of the admixture, the meal being ordered by him and invoiced to him as common linseed meal. The firm from whom he purchased it were also unaware of the admixture, and it was only on application to the millers that he became aware of the custom of adding cereals in grinding. No blame could therefore be attached to Mr. Macdonald in any way, although a technical contravention of the Act had doubtless taken place. Sheriff Campion said that the Act imposed tho penalty on the retailer whether he was to blame or not, and he could only be freed by obtaining a written warranty from the wholesale houses. He imposed a modified penalty of 1l., with 20s. 6d. costs.

PROSECUTION OF CHEMISTS UNDER THE SHOP-HOURS

AT the Cardiff Police Court on October 9, before Mr. W. T. Lewis, Stipendiary, Messrs. Hicks & Co. (Limited), chemists and druggists, of Queen Street, were summoned for employing two lads under the age of 18 years in a warehouse without having the notice prescribed by the Shop-hours Act affixed in a prominent part of such warehouse. Mr. F. C. Lloyd, Deputy Town Clerk, who conducted the prosecution, said the inspector appointed under the Shop-hours Act found great reluctance on the part of employers to fix a notice in their workshops giving information to the young persons employed therein as to the number of hours they were to work. No doubt that was brought about by the fact that the Press had described the statute as a legislative failure, because though section 4 orders the fixing of a notice in the shops, no penalty was attached to a disregard of this provision. Joshua Davies, inspector under the Shop-hours Act, said that on September 27 he went to the defendants' warehouse, where he saw two lads under age doing general ware-house work. There was no notice fixed up in accordance with the Act. He had previously warned the defendants. The manager of the company appeared and pleaded ignorance. He said that a notice had since been fixed up. The Stipendiary thought the offence had arisen through the defendants' misapprehension. He would therefore not impose a penalty, but they would have to pay the cost of the proceedings.

CASSIA FOR CINNAMON.

AT Dumfries Sheriff Court on Tuesday, Sheriff-Substitute Campion on the Bench, David McNae, chemist, Thornhill, pleaded guilty to selling, by his assistant, William Brown, on August 24, to Mr. McKirdy, inspector under the Food and Drugs Acts, one ounce of ground cassia for ground cinnamon.

Mr. John Henderson, solicitor, Dumfries, appeared on behalf of the accused, and stated that Mr. McNae had been from home. The boy left in charge thought that cassia was asked for, and charged 2d., which was the regular price of cassia, whereas cinnamon was sold at something like 4d. or 6d. Mr. McKirdy knew perfectly well that he got what he paid for. It was a pure accident on the part of the boy.

The Sheriff: It was rather a fortunate thing that the acci-

dent occurred with a harmless drug. Had it been otherwise

it would have been an awkward thing for the boy,

The Sheriff said he must follow the usual practice in such cases. A chemist was responsible for what goes on in his shop, and if he left home he must make arrangements to have his place filled by a properly qualified person. Mr. McNae was fined 11., with 21s. 6d. of expenses.

John Cuthbertson Pendreith, chemist, Sanquhar, also pleaded guilty to selling 1 oz. of cassia for cinnamon on the same date.

Mr. William Thomson, solicitor, Dumfries, on behalf of the accused, pointed out that for generations the general public had been accustomed to the term ciunamon. It was sold at

4s. per lb., while cassia was sold at 9d. It was quite impossible to sell true cinnamon at the same price as castia. But the one drug did as well as the other, and when people asked for cinnamon they knew that they were getting cassia.

It was not a case of adulteration, but of substitution.

The Sheriff: It is necessary that when people go to a chemist's shop especially they should get precisely the article they ask for, whatever they pay for it. A fine of 1l., with 21s. 6d. of expenses, was imposed in this case also.

Bankruptcies and Failures.

Re OWEN BROOKES, Llandudno, Chemist's Assistant.

This debtor passed his public examination on October 4. The gross liabilities were 97l. 18s. 7d., and the assets 11l. The debtor attributed his insolvency to his wife, who was living apart from him, contracting debts without his knowledge, his personal liability being only 10%.

Re ABRAHAM DOWNES ABBOTT, Torquay, Chemist's Assistant.

A FIRST meeting of creditors in this bankruptcy was held at the Exeter Bankruptcy Offices on October 1. The summary of affairs showed liabilities amounting to 244l. 8s 10d., and assets 381. Debtor attributed his failure to becoming surety for his brother. The receiving order was made on a creditor's petition, the act of bankruptcy being non-compliance with the terms of a notice. Debtor had not been in business on his own account and had kept no books. In November last, in order to pay rent, rates, and taxes then overdue, he sold a portion of his furniture for about 30%. He did not become aware of his insolvency until March last, when his brother filed his petition. Debtor's insolvency, the Official Receiver stated, appeared to be entirely due to his liabilities on behalf of his brother. Mr. Abbott was subsequently publicly examined before the registrar (Mr. R. R. M. Daw). He said his salary was 3*l*. a week, and he had a wife and three children dependent on him. He became surety for his brother considerably over twelve months ago, and signed a promissory note for 130l., but received none of the money. The Official Receiver said a very unique document had come to him. It was signed by twenty-one creditors, and expressed the greatest sympathy for the debtor. Mr. Abbott was allowed

Re GEO. DOBSON, Cardiff, Chemical-manufacturer.

At the Cardiff Bankruptcy Court on Thursday, before Judge Owen, Mr. Bailhache, barrister, appeared in support of an application by the bankrupt, who was formerly a chemical-manufacturer in Cardiff, to reduce an order made upon him to set aside part of his income for the benefit of his creditors. At the time the order was made, Mr. Bailhache said, it was supposed that the bankrupt was in receipt of 5l. per week as manager to some chemical-works, and his Honour adjudged him to pay 21. per week. The Official Receiver however, had since become satisfied that the bankrupt was only getting 31. per week, but it seemed there was some liability on the part of his employers to account to the bankrupt for some balance at periodical periods should there be any. He (Mr. Bailhache) now asked that the matter might stand over till next court day, and in the meantime-some proposal would be made to the Official Receiver with a view to a settlement. The application was acceded to.

Re FREDERICK GEORGE WRACK, 5 Hilderthorpe Road, Hilderthorpe, near Bridlington Quay, Chemist.

THE following are creditors in this recent failure :-

			£	S.	d.	
• •	••		10	0	0	
	••		10	0	0	
	••		95	0	0	
m			10	0	0	
			275	0	Ω	
	 m	in	 m	10 95 m 10	10 0 10 0 95 0 m 10 0	10 0 0 95 0 0 m10 0 0

Deeds of Arrangement.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying ont compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision in the Act making any of these arrangements binding upon dissenting creditors.

Spence, Charles & Co. (Charles Spence, trading as), 7 Tithebarn Street, Liverpool, and residing at Winton House, Fairfield, near Liverpool, chemical-broker. Trustee, Arthur H. Chalmers, 5 Fenwick Street, Liverpool. Dated, September 29; filed, October 4. Secured creditors, 4711.6s. 5d. Unsecured liabilities, 2,4571.13s. 5d.; estimated net assets, 1,1681.9s. 6d. Composition of 7s. in the pound, payable 2s. 6d. at one month, 3s. 6d. at two months, and 1s. at six months from date of deed. The following are scheduled as creditors:—

		£	5.	d.	
Bacon, W. C., & Co., London		27	0	0	
Bancroft & Co. (Limited), Liverpool		16	0	0	
Berk, F. W., & Co., London		11	0	0	
Blythe, W., & Co., Manchester		19	0	0	
Boor, G., & Co., London		250	0	0	
Bowman, Thompson & Co., Northwich		71	0	0	
Burner, Routledge & Co., Liverpool		41	0	0	
Cheshire Alkali Company, Middlewich		54	0	0	
Corporation of Liverpool, Liverpool		14	0	0	
Crook, J. W., London		10	0	0	
Davis Chlorine Company, Manchester		42	0	0	
Evans, Sons & Co., Liverpool		16	0	0	
Goodacre & Co, Liverpool		19	0	0	
Green, Mrs. C. H., Birkdale		36	0	0	
Grimshaw, Bros. & Co., Clayton		36	0	0	
Haddock, Parker & Co., Liverpool		413	0	0	
Hopkins & Oo., Liverpool		10	0	0	
Learmout & Johnson, Neweastle-npon-Tyne		79	0	0	
Luzmore & Evans, Liverpool		18	0	0	
North British and Mercantile Insurance Com	pany,				
Liverpool		22	0	0	
Patterson, J., & Co., Giasgow		27	0	0	
Perry & Hope, Kirkintolloch		22	0	0	
Petri Brothers, London		52	0	0	
Spence, Mrs. Charles, Fairfield		145	0	0	
Steele, R. D. & Co., Liverpool		111	0	0	
Stubbs, Wilson & Pollard, London		12	0	0	
United Alkali Company (Limited), Liverpoo	1	477	0	0	
Walkers, Parker & Co., Liverpool		56	0	0	
Williamson, J. H., Stoke-on-Trent		288	0	0	
Wilson & Coventry, Liverpool	• •	16	0	0	

Squire, William Danescombe, Criffield Road, Ealing, M.D. Trnstee, Percy Mason, 64 Grosham Street, accountant. Dated, September 28; filed, October 5. Seenred creditors, 79%; unscenred liabilities, 950%; estimated net assets, 421%. The following are scheduled as creditors:—

					£	8.	đ.	
Briggs, Dr. H., Sonthpo	ort		 • •		35	0	0	
Bryant, Thomas, Londo	u		 		25	0	0	
Caught, Miss S., Ramse	ate		 		200	0	0	
Cotching, -, London .			 		23	0	0	
Godlee, J. H., London .			 		20	0	0	
Hare, Dr. C. J., London	1		 		66	0	0	
Harris & Chambers, Lo	ndon		 		11	0	0	
TT 317 71 31			 		74	0	0	
Hood, Dr., London			 		25	0	0	
Horsman, M. G., Londo	n		 		25	0	0	
Jeayes, Kasner & Co., I	ondo	n	 		12	0	0	
Malthy, James, London	1		 		16	0	0	
Moon, Hodges & Co., E	aling		 		21	0	0	
Moore, Walter, & Co., A	Acton		 		13	0	0	
Myring, -, Haling			 		19	0	0	
Newington, Mrs.			 		15	0	0	
Ogle, Dr., London			 		10	0	0	
Plumer, E., London			 		61	0	0	
Rent			 		18	0	0	
Saunders, D. E. C.			 		25	0	0	
Scaton, Dr. E., Streath	nm C	ommon	 		45	0	0	
Shove, G. H., London			 		79	0	0	
Sibley, Dr., London			 		25	0	0	
Squire, Mrs. E. F.			 	• •	75	0	0	
Venzey, G. S		.,	 		25	0	U	

Gazette.

THE BANKRUPTCY ACTS, 1883 AND 1890. PARTNERSHIPS DISSOLVED.

Mills, G. T., and Short, S., under the style of Mills & Short, Bristol, a frated-water manufacturers.

Magrath, W., Magrath, J. W., and Robertson, A., under the style of the Birmingham Colour Company (so far as regards A. Robertson), Birmingham, paint, colour and varnish manufacturers.

RECEIVING ORDERS.

Adams, George Absalom, formerly of the Market, Plymonth, but now of Ladywell Cottage, Ladywell Place, mineral-water manufacturer.

Miller, Richard May, Church Road, Upper Norwood, S.E., dector of medicine.

Tetlow, John, and Tetlow, George Naylor (traling as Tetlow Brothers), Hyde, mineral-water manufacturers.

ADJUDICATIONS.

Adams, George Absalom, Plymonth, mineral-water manufacturer. Marpole, John, Treharris, chemist.

Marringes.

KEITH-WISHART.—At the Grand Hotel, Aberdeen, on October 10, by the Rev. J. C. Smith, M.A., Minister of Kintore, Alfred G. Keith, chemist, Kintore, to Janet, fifth daughter of Mr. Alexander Wishart, farmer, Bridgellis.

NOBLE—LEIGHTON.—On October 4, at the Parish Church, Peterborough, by the Rev. L. T. Jones, Henry E. Noble, chemist and druggist, of Midgate Buildings, Peterborough, to Mary A. Leighton, daughter of Mr. D. Leighton, of the Royal Temperance Hotel, Peterborough.

Deaths.

ARBLASTER.—On September 18, Emma, the dearly loved wife of Charles J. Arblaster, chemist, of New Street, and Hagley Road, Birmingham.

FLETCHER —On September 24, Tom Fletcher, chemist and druggist, Leeds. Aged 62.

HAIR—On September 23, Matthias Hair, chemist and druggist, Newcastle on Tyne.

HICK.—A familiar figure in South Yorkshire, has been removed by the death of Mr. Allan Hick, who carried on the business of a chemist and druggist in Wath-upon-Dearne, for many years. His death occurred in a painfully sudden manner on the 5th inst. The deceased presided over a meeting of the directors of the Swinton Gas Company on the Thursday. On the following day he was seized with paralysis, resulting from a diseased heart, and died a few hours later. The deceased, who was 71 years of age, retired from business a few years ago, but continued to take an active part in public and religious work.

JAMES.—On September 22, John James, chemist and druggist, Liverpool. Aged 48.

WADE.—At Clyde Terrace, Sidcup, the wife of Mr. Walter Wade, chemist and druggist. Aged 46.

GROCERS AND CARBOLIC ACID.—The B. M. J., commenting upon Mr. Braxton Hicks's suggestion regarding the labelling of carbolic acid, says it "is appropriate and commendable, but if it be carried out in such a way that carbolic acid can be sold by grocers, oilmen, and general dealers side by side with articles of food and ordinary domestic commodities, its association with such familiar necessities would materially reduce the effect such precautions might otherwise have and leave the probability of accident or misuse but little altered. Everything points to the necessity of treating carbolic acid as a poison within the meaning of the law, because in the whole category of poisons it is the one which is the most frequent cause of fatal accidents"

Ernde Report.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., October 11.

Cinchona-sampling in Amsterdam.

The recent decision of a few prominent importers of Java cinchona in Amsterdam to revert to the old system of sampling instead of continuing to have samples drawn by the officials of the "Kina" establishment, which is the chief clearing-house for the drug, has caused a good deal of grumhling among parties interested in the cinchona trade. The Cinchona Association of Amsterdam have addressed a circular to all the quinine makers asking them whether they prefer the old or the new method of sampling. The replies were publicly read at a special meeting of the members of the Association, and are unanimous in their appreciation of the new method of sampling followed at the "Kina" establishment and their depreciation of the action of the dissident importers who have hroken away from the organisation. Messrs. Howards & Sons write:—

"Previous to the introduction of the present system we found it most difficult to obtain samples upon which we could depend of the bark for sale in Amsterdam. The system now in force at the Kina Etablissement is the only one that has been found fully satisfactory.

"In London a sample is taken from every package, and the whole of them mixed together, and from that great sample are taken the samples sent to the buyers.

"This proved far more satisfactory than the old system in Amsterdam, but as the samples are not ground together it is not nearly equal to the present system there."

The majority of the importers reproach their dissenting colleagues with heing the partial cause of the recent breakdown in the Amsterdam hark-market; they say that the principal quinine manufacturers refuse to hid for barks not sampled by the "Kina" establishment, and that the presence of these outside lots spoils the auctions.

ACID (CITRIC).—The maker's prices are from 1s. $2\frac{1}{4}d$. to 1s. $2\frac{1}{2}d$. per 1b., hat we understand that it is possible to huy for export at 1s. 2d. per 1h.

ACID (TARTARIC).—A very dull market, in which it is exceedingly difficult to effect sales. Foreign crystals offer at $10\frac{3}{8}d$, per lh. The English makers quote $10\frac{3}{4}l$, to 11d, per lh.

ACONITE.—A parcel of 10 bags small Japanese aconiteroot, for which at auction 28s. 6d. was refused, was afterwards sold at that price, which shows an advance of ahout 4s. per cwt. The drug has been scarce for some time, but even at the present price it is probably cheaper for manufacturing purposes than German root.

ALOES—A parcel of 45 cases Cape aloes, of new import was placed in sale to day, and found huyers with fair competition at an advance of 6d. to 1s. per cwt. on good qualities, good to fine bright hard realising 22s. 6d. to 23s 6d.; fair, slightly drossy, from 20s. 6d. to 22s.; and dull quality from 17s. 6d. to 19s. An arrival of 44 cases has taken place this week. It was announced to-day from the rostr n m that there will be very little coming from the Cape for some time, an announcement which was received with derision. Of Curação aloes 105 packages were shown, ahout half of which sold with competition at a considerable increase in price—namely, 34s. for dark livery and 16s. 6d. for common dark overheated. This variety has heen rather scarce for some months. East Indian aloes in plentiful supply. Good quality Socotrine realises fair prices, 5 kegs of good aroma and colour selling at 70s. per cwt.; on the

other hand, 7 packages dark dull dry aloes sold without reserve at from 15s. to 20s. For a parcel of 36 cases liquid orango Zanzibar of sour flavour 33s. was refused, as being 1s. below the limit.

AMBERGRIS.—Rather neglected; several lots were shown, and for one of these, consisting of small brown pieces of good aroma, a bid of 60s. is to be submitted, although the price is said to be 62s. 6d.

ANISE —A parcel of 20 hags fair green *Spanish*, of rather weak flavour, sold to day without reserve at from 38s. to 40s. per cwt.; this is rather helow the price recently asked for this variety, which is about 46s.; 10 bags small grey *Chilian* anise realised 24s., subject to approval, and for a lot of 26 packages *Italian* (from Naples) 34s. per cwt. is wanted.

Annatto.—Rather lifeless. Fine bright Madras seed was hought in at from 4d, to $4\frac{1}{4}d$, per lb.; for fair Ceylon and $West\ Indian$ bids of 2d, per lh. were rejected.

ARECA-NUTS. — Ninety-one bags of fair quality were bought in to day at 14s. per cwt.

BALSAM CANADA.—The O. P. & D. Reporter states that while there has been little or no increase in the consumption of Canada balsam-fir within the past five years, the supply has been gradually diminishing. The collection of halsamfir is not a regular industry, but has been prosecuted by lumbermen and others, who devoted their leisure to it. So long as the halsam could be obtained near the markets the supply was ample and regular, but with the cutting down of the Canadian forests for timber the source of supply has been removed from commercial centres, and the collection of the halsam has not proved profitable enough, for a number of years past, to encourage those who heretofore engaged in it to continue to bring it to market. The quantity collected this year was very small, not exceeding 50 barrels. The price has advanced from \$2.25 to \$3.25 per gallon since August, and the prospects for much higher prices are exceedingly good. The cost of the commodity seems to make little difference in the quantity consumed While Oregon balsam-fir enters into competition with it to some extent, it is not a desirable substitute in a majority of the processes in which the Canadian is used.

BALSAM COPAIBA.—Several small parcels were shown; but the only lot sold was one of two harrels dark-yellow thick-Maranham, which realised 1s. $5\frac{1}{2}d$. per lb.

BALSAM PERU.—No alteration in the market; two cases which were to have been offered to-day were not landed in time for the sales.

BALSAM TOLU.—One shilling per lh. is the price for good-quality; three cases were hought in to-day at 1s. 3d. per lb.

BENZOIN.—Palembang gum is quite neglected, 10 cases fair quality being hought in to day at 37s. 6d. per cwt. A lot of 11 cases fair almondy, partly glassy, Penang sold at from 65s. to 67s. per cwt. Of Siam gum 15 cases were-offered; the hetter lots are held much above the market price, 18l. per cwt. being asked for small to medium almonds in block, of good colour; small almonds and siftings in yellow block (5 cases) realised from 6l. 12s. 6d. to 6l. 15s. per cwt. Of Sumatra benzoin no fine qualities were shown; medium-grades, however, are fairly plentiful, and sold at slightly easier rates, 48 cases out of 145 placed at auction realising from 7l. 2s. 6d. down to 6l. 15s. for fair almondy seconds, false-packed sides, and from 6l. down to 5l. 10s. for dull very false-packed ditto.

BISMUTH.—No confirmation has been received in quartersmainly interested in hismuth of the reported discovery of deposits of that metal in Michigan, U.S.A., and the news is regarded as either untrue or too exaggerated to be worthattention. For the present the position of hismuth remains unaltered, but the London representative of the Bolivian mine-owners belonging to the combination left for Bolivian few weeks ago, with the object, it is believed, of effecting some arrangement between the syndicate and the owners of the now Bolivian bismuth-mines. He is expected back early next year. With regard to the arrivals of bismuth from Hamburg, that have of late figured upon our import lists with exceptional frequency, we are informed that the whole of this consists exclusively of combination owned metal of Sixon and Bolivian origin. The reduced price of bismuth

is said to have stimulated the consumption very materially, and we hear that the syndicate agents have been approached, with a view to induce them to book orders for delivery, a request which they have declined to entertain.

BORAX.—The quotations remain unaltered, but a slightly firmer tendency appears to be noticeable among the manufacturers. It is still possible to shade the combination price of 201. per ton for crystals to about 191. 15s. from outside makers, but there seems to be a general objection against selling for delivery.

BUCHU.—In large supply, and saleable in quantities at reduced prices. About 50 bags were offered to-day, of which 4 sold; good bright brown green leaves at $3\frac{1}{2}d$., ordinary stalky and yellow ditto at from $1\frac{3}{4}d$. to 2d. pcc lb. Good narrow green leaves were bought in at $7\frac{1}{2}d$. to $8\frac{1}{2}d$. per lb.

CAFFEINE.—The manufacturers have great difficulty in keeping up supplies of this article, the advance in price of which we have already announced. We are informed that 347 tons of tea-sweepings were sold by the Dock Company for caffeine-making purposes last year at the rate of 45s. per ton. For the present the stock of sweepings is exhausted, and although the caffeine makers would be quite willing to pay a higher price, they cannot get material on any terms. The stock of tea-sweepings in Germany is said to have been quite used up, and the manufacture of the drug in that country has become practically impossible. "I should not be surprised," added our informant, "to see caffeine quoted at 15s. per lb. shortly."

CALUMBA.—Quiet, with moderate sales of fair, partly bright, mixed sorts at 15s. 6d. to 16s. 6d. per cwt.

CAMPHOR (CRUDE) has been quiet all through the week, but to-day an advance of 5s. per cwt. is reported, 200 packages China, September-November shipment, being dcclared sold at 102s. 6d. per cwt., c.i.f. terms. It is added that there are further buyers at this price.

CANELLA ALBA.—Firmly held; a bale of ordinary broken and split partly damaged pale wood brought the high price of 25s. per cwt.

CANNABIS INDICA.—In fair supply; a parcel of good greenish tops from Bombay sold at $3\frac{1}{2}d$., and for another lot 3d. per lb. is asked.

CANTHARIDES.—Eleven cases Chinese flies were offered to-day, and five of these sold at from 8d. to $10\frac{1}{2}d$. per lb. for bold mixed to very dusty flies. This shows a rather easier market.

CARDAMOMS.—The supply at to-day's anctions consisted of 144 packages, of which about 60 sold at somewhat irregular rates, fine qualities being rather easier, ordinary and medium full up, while seeds sold at an advance of fully 1d. per 1b. The following were the quotations:—Ceylon-Mysore, medium to bold palish yellow, full round, 2s. 6d.; medium size, 2s. 1d. to 2s. 3d.; small to medium, rather yellow, 1s. 10d. to 1s. 11d.; medium long yellowish, rather lean, 1s. 9d.; medium grey round, 1s. 7d. to 1s. 8d.; small to medium thin brownish, 1s. 6d.; partly split brown and pale, mixed, 1s. 4d. to 1s. 5d. per 1b. Tellicherry, small to medium brown, partly lean, 1s. 5d. to 1s. 6d. per 1b. Seed, 1s. 6d. to 1s. 7d. per 1b.

CASCARA SAGRADA.—Good quality is reported to be selling privately at 25s. per cwt. At auction about 110 bags were shown, and all bought in at from 25s. for small and dusty to 30s. per cwt. for fine pale bright.

CASCARILLA.—Scarce, and about 2s. to 3s. higher. For a parcel of 16 casks of dust and siftings 25s. per cwt. is required; another lot of 9 bales sold at 42s. for fair broken silvery quill, and at 29s. for thin grey twigs.

CHAMOMILES—The gathering of chamomile-flowers in Belginm, which is usually prolonged until the end of October, is said to have come to an end last week already. Prices are tending somewhat firmer, from 37s. to 39s. per cwt. being now asked for current season's flowers, according to quality.

CHIRETTA.—Several lots offered to-day were all bought in at nuchanged low prices, ranging from 2d to $2\frac{1}{2}d$, per 10

CINCHONA.—Detailed reports of the results of last Thursday's Amsterdam bark-sales state an exceedingly depressed tone prevailed there, less willingness to buy being shown than at any previous cinchona-auction held in the city. Some of the principal quinine-manufacturers abstained from buying altogether, and of 28,862 kilos, sulphate of quinine in the bark only 5,378 kilos. were sold, at a unit ranging from 3c. to 31c. per half-kilo, a drop of fully 25 per cent. on the last preceding sales. The demand for pharmaccutical bark, especially in good quills, was satisfactory, but medium quill remained neglected, and was mostly bought in. Broken druggists' quill and coarse dust also realised fair prices. The two richest parcels of bark at auction (22 bales crushed Ledger, analysing 1223 per cent. s.q, and 2 bales ditto, analysing 1173 per cent. s.q) remained unsold. The exports of cinchona-bark from Java in the month of September were 1,100,000 half-kilos, a very heavy quantity. September of last year they were about 540,000 half-kilos. The cable-announcement arrived in Amsterdam just before the last bark sales, and materially helped to depress the market. At next Tuesday's London anctions about 500 packages African, 400 East Indian, 200 cultivated South American Calisaya, and 400 Cuprea bark will be offered. Of South American bark 4 bales from Guayaquil were bought in to-day at from 8d. to 1s. 6d. per 1b., according to quality. The new arrival of Calisaya, of which mention was made in our last issue, was shown to day. It consisted of 127 bales, all damaged, the whole of which was bought in; bold, thin, rather dark, flat pieces are held for 1s. 8d. per lb.; smaller, and rather stouter, for 1s. 6d. per lb. One of the most interesting features at to-day's auction was the offering of 9 packages, amounting to about 4 cwt., of South American red bark, just imported via Havre; the whole sold, with strong competition, at about double the market valuations; small to medium quills, dull and pale, realised 6s. 6d. to 7s per lb, dull chips 3s. 6d. to 6s. per lb, and very ordinary small pale quills $3\frac{1}{5}d$. to 8d. per lb.

COCA-LEAVES —Very little was offered to-day, but for a parcel of 7 bales good stroud and dark *Huznoco* leaves 1s. 4d. per lb. is the price.

COD-LIVER OIL.—Very firmly held. The prices for Norwegian vary from 85s. for summer oil to 110s. for best noncongealing Lofoden. Sales were made to-day of good quality at 100s per barrel.

COLOCYNTH.—No further business has been done in Turkey apple since last week, but the supply remains very small, and owners now ask 2s. 9d. per lb. for fair quality. At anction one case was bought in at 3s. 6d. per lb. It is reported from Alexandria that this year's crop of colocynth apples will be a very small one.

COWHAGE —Only two packages of this drug, which has long been practically unsaleable, were offered at to-day's auction. No bids were made, but 1d. per oz. would have been accepted for fair quality mixed with stones and seed. It is said that a considerable portion of the stock has been reshipped to India, where the current market price is about 3d. per oz.

CREAM OF TARTAR.—Tending higher. The market is excited to day, news from France indicating that very little is available there. Most of the manufacturers, in fact, decline to quote for delivery before November. The canse of the rise is the advance in the price of tartars. To-day's quotations are from 64s. to 65s. net, f.o.b. Bordeaux, and in London there are buyers of best white French crystals at 67s. 6d. German powder is quoted at 70s. per cwt. From Barcelona no offers are in the market.

DRAGON'S BLOOD. — Twenty-two cases were offered at auction to-day, but the whole was held above the market valuation and bought in. Good fiery saucers from Singapore realised 7l. 10s., and hard lnmpy 6l. 15s. per cwt.

ERGOT OF RYE is unaltered; 8 packages of old *Spanish* wormy, but sifted, were offered; 2 sold at $8\frac{1}{2}d$. per 1b., and for the remainder a bid of 9d. was rejected, the price being $10\frac{1}{2}d$. per 1b.

GALANGAL-ROOT is scarce, and 20 bales of good bold root which were offered to-day sold with fair competition at from 19s. 6d. to 20s per cwt.

GALBANUM.—A parcel of 3 cases from *Bombay*, partly yellow almondy, partly blocky, was held for 1s. per lb. at auction to-day, but was not disposed of. Afterwards the

whole was sold at the price mentioned, showing a rather higher market.

GAMBOGE is difficult to sell. Nine cases at auction to-day were all bought in except one, consisting of partly blocky broken pipe, with good fracture, which realised 101. 2s. 6d. per cwt. The rest are held above market value.

GENTIAN-ROOT.—Five bales of rather dull root from Bordeaux sold at 14s. per cwt. to-day.

GUAIACUM RESIN.—Only common kinds were offered today, and met with no demand. Ten cases dull hard blocky were bought in at 6d. to 8d. per lb. Only one case sold at 6d.

GUM ACACIA.—The market is at present almost bare of Tnrkey (Soudan) sorts in importers' hands. The chief cause of the advance lies in the large purchases which have been made here for American account. In Liverpool, which is also a large market for Turkey gums, the feeling is said to be even stronger than ever. The total increase in value in the course of the last fortnight is from 5s. to 7s. per cwt. At auction to day several lots were shown. One parcel of good pale soft sorts, partly dusty, imported viâ Amsterdam, is held for 60s., a bid of 56s per cwt. having been refused for it privately; another lot of 10 hales was also bought in, at 60s. per cwt. Five cases Trieste-picked gum were bought in, at 8l. 10s. per cwt. for fair drop. The stock of Jeddah Amrad gum in importers' hands is also exhausted, sales having been made at very full prices.

GUM AMMONIACUM.—Firmly held for rather higher prices. A bid of 45s. was refused for 3 bags partly loose palish drop and siftings, partly blocky and seedy; the owner wants 55s. for this lot. Another consignment of 33 bags of somewhat inferior quality is held for 43s. per cwt.

GUM ELEMI.—Of 22 cases of rather dull pale mixed Manila of fair flavour, 7 realised 34s. per cwt.

GUM EUPHORBIUM.—Neglected; though good qualities are scarce. At auction only 3 serons of very ordinary and drossy gum were offered, without reserve, and sold at from 3s. to 5s. per cwt., subject to the price defraying charges.

GUM KINO.—Two lots were offered to-day, but neither of them was of fine quality; one case, "land carriage," which has been offered before, was again offered without reserve. A bid of 10s. per cwt.—scarcely seriously meant—was made for it, but no definite answer was returned. The other lot consisted of 11 bags of an astringent gum, probably a Butea gum, much mixed with wood, imported from Bombay. These were bought in at 6l. per cwt.

Honey.—All varieties are in demand at very steady and occasionally higher prices. Of 32 packages from Jamaica nearly all sold at from 27s. to 27s. 6d. per cwt. for nice clean pale candied, much resembling Chilian, and from 26s. down to 22s. for liquid amber to dark. A case of dark-brown, half liquid, sold subject to approval at 15s. per cwt. For 13 cases clean, thick, liquid Californian 36s. 6d. to 37s. was paid, while for a parcel of 54 cases from Adelaide of thick candied, of good flavour, a bid of 34s. 6d. was rejected.

IPECACUANHA.—The 58 bales of Brazilian (Rio root) offered at to-day's auction consisted mostly of inferior qualities. It was generally expected, after the advance which has been privately paid, that higher prices would rule, and this expectation was confirmed. Holders were generally very firm, and only 21 bales found buyers at an advance compared with the last auctions of from 9d. to 1s. per lb., the rise being greatest on common qualities, fair sound annulated to rather thin and woody root realised from 5s. 6d. down to 4s. 11d. per lb.; ordinary woody ditto, 4s. 5d.; good to lean slightly-damaged root, from 5s. 6d. to 5s. 3d. per lb.; and a parcel of wood 5d. per lb, subject to approval. Thirty-five packages of Carthagena ipecac. were all bought in except one, which sold at 3s. 7d. per lb. for common quality. Owners, however, are firm, and business could only be done at an advance of about 6d. on the last sale-rates, the current price being from 4s. to 4s. 3d. per lb. for good quality.

JABORANDI-LEAVES.—Another consignment of *Paraguay* leaves, consisting of 6 bales damaged, but bold grey to green mixed, was bought in at 9d. per 1b., the price at which the

last similar consignment found a buyer. The parcel of 22 bales which was offered in the market a few days ago, and which was said to contain 0117 per cent. of pilocarpine, has been privately sold.

JALAP.—Privately there has been a very good demand since our last report, about 100 bales being reported sold last Friday and Saturday (mainly for export to New York) at full prices. From Hamburg a hrisk trade at higher figures is also reported. Before to-day's auctions 1s. 2d. per lb. was asked for good sound Vera Cruz. At auction only two bags very small shrivelled Truxillo character, which have been offered before, were shown, and bought in at 1s. per lb.

Kola-Nuts remain in good demand and realise high prices. Two packages good bright West Indian sold at 1s. 1d. to 1s. $3\frac{1}{2}d$ per lb., and of 25 bags African 18 found buyers at $10\frac{1}{4}d$ to 11d. for fair, rather dull, mixed.

MENTHOL is still offering at 15s. 6d. per lb. on the spotbut for shipment, near-at-hand prices are tending somewhatfirmer, 13s. 6d. per lb. c.i.f. terms being the quotation.

Musk.—There was an almost complete absence of demand at auction to-day, although owners still continue to report transactions by private treaty at full prices. Only one tin of first-pile *Tonquin* pods, small to bold, blue and grey skin and underskin, well trimmed, somewhat damp, sold at 65s. per oz., all the rest being bought in at 72s. per oz. for fine blue skin, and 56s. per oz. for old-fashioned. A parcel of very wet first and third pile pods was also bought in at nominal rates.

MYRRH.—Neglected. Good Aden picked was bought in at 51. 10s. per cwt., and about 23 packages pickings sold at 27s. 6d. for good, 20s. for ordinary woody mixed, and 17s. for common block.

OILS (ESSENTIAL).—The Bellona, of which the loss is exploited by speculators for all it is worth, is said to have carried about 10,000 lbs. of Japanese oil of peppermint and menthol, though in what proportions appears unknown. As a result, both these articles are quoted rather firmer: dementholised oil of peppermint at 7s. 6d to 7s. 9d., 40-per-cent. oil at 9s. 6d. to 10s. per lb. on the spot—an exceptionally wide difference. At auction to-day 3 cases Cinnamon-leaf oil, unblushingly lahelled "finest cinnamon oil," sold at $1\frac{1}{8}d$. per oz., and another 2-case parcel of the same quality at 1d. per oz. Three cases low-grade Cinnamon oil, offered without reserve, realised 4d. per oz. Bombay Rose oil is in plentiful supply, and difficult of sale; everything offered to-day was hought in at nominal rates. Five cases Cojuput oil, of fair appearance and colour, realised 2s. per bottle. Two cases distilled and 2 cases hand-pressed West Indian Oil of limes, although shown, were not offered. For 47 cases Lemongrass oil, from Bombay, $1\frac{7}{5}d$. per oz. isrequired. Eucalyptus oil remains neglected. Two cases of the new brand (Porcupine) were offered, and nominally bought in at 3s. per lb. American Oil of peppermint (HGH) offers at 10s. $4\frac{1}{3}d$. per lb. on the spot, or at 9s. 6d. per lb. "ci.f." terms. Oil of eassia is dearer, but not much business can be traced in it. For fair quality 4s. per lb. was reported to have been paid on the spot a few days ago, and to-day it is reported that 4s. 4d. per lb. is required. The price for shipment is 3s. 6d. per lb. c.i.f. September-October for oil of 65-70 per cent. cinnamic aldehyde. New Italian essential oils are now being offered. The leading brands of Lemon oil are quoted at 4s. 3d. to 4s. 6d. per 1b. f.o.b., which is from 6d. to 9d. higher than the last quotation. Fair commercial oil offers at 3s. 3d. to 3s. 6d. per lb. f.o.b. Good new Cil of bergamot is held for 7s. 4d. to 7s. 6d. per lb. f.o.b., and Oil of orange at from 4s. to 4s. 3d. per lb. f.o.b.

OIL (STAR-ANISE).—This article has been the great centre of interest in the drug-market this week. The Bellona, which left Yokohama on October 1, and, after calling at various Chinese ports, was lost in the Chinese Sea, is variously reported to have had on board from 120 to 175 cases of the drug. Although thus far there is nothing to prove the accuracy of the assertion that she carried any oil of star-anise at all, the report has, nevertheless, assisted in causing a lively flurry in an already sensitive and rising

market. On Saturday last 8s. 6d. per lb. was paid for oil on the spot, and on Monday it was reported that 10s. per lb. had heen given in that position. As usual, in circumstances of this kind, there is a lot of wild talk about the position of the drug, but it is generally reported that to-day 10s 3d. per lb. has been paid; this famine-price, however, only applies to oil on the spot, mainly for the reason that there are believed to be fewer than 20 cases in London. A report is current to-day that ahout 50 cases have just arrived, hut we have not been able to confirm this. The parcel certainly has not yet appeared in the import lists. Some few weeks ago America sold a considerable quantity of oil to London, but this has all gone into consumption. It is now reported that there are no stocks either in the States or on the Continent, hut that assertion is contradicted by the fact that a sale was made to-day at 9s. per lb., c i.f. terms, for prompt shipment from the Continent, and that French firms offer at 9s. 6d. per lb., same terms, and might perhaps take a little less. For more distant shipment the prices are very far below the spot quota-Yesterday September-October shipment offered at 6s. 3d. per lb., c i.f., but to-day 6s. 6d. c.i.f. is asked; October-November is quoted at 6s. 2d. to 6s. 3d., c.i.f.; November-December at 5s. 10d. to 5s. 11d., c i.f. A cablegram received from Cbina to-day represents the market as rapidly advancing.

Opium.—The news of an important advance in the Smyrna market, and the statement that American firms are again laying in stock, has produced considerable excitement in London, and resulted in considerable sales, mainly of druggists' varieties. The total quantity sold during the week is estimated at ahont 100 cases. Holders are generally exceedingly hard to move, and prices close at from 6d. to 1s. per lb. above last week's figures. Good Salonica opium has changed hands at 10s. 6d. per lb., and nothing further can be had at that price. In soft shipping varieties there has heen little or no change. Persian has sold at 11s. per cwt. The London stock is said to be unusually small, although official figures in support of this statement are withheld. The quotations now run as follows: Good to fine soft shipping, 10s. to 11s; good to fine Smyrna, 9s. 6d. to 10s. 6d.; druggists' seconds, 9s. to 10s.; Persian, 10s. to 11s. per lb. The following is the latest mail report from our Smyrna correspondent. It is dated Septemher 30:—"Rain has not fallen yet in any of the opium districts, excepting Ouschak, where there have heen a few showers. This is the sum total of our rainfall throughout the country since last spring, and timely rains to prepare the ground for the autumn sowings (which are the most important) is much wanted. This week speculators have commenced huying new current talequale, which has had the effect of strengthening our market, the closing figures being as follows:-New current talequale, 8s. 1d. per lb., f.o.h.; new Yerli talequale, 8s. 3d. per 1b., f.o.h.; new sightly seconds, 8s. 3d. to 8s. 4d. per lb., f.o.b.; old manufacturing talequale, 8s. 4d. to 8s. 5d. per lb., f.o.b. The arrivals to date are 1,480 cases, against -635 at the same time last year. Our stock of old and new opium in first and second hands in Smyrna is about 1,800 ·cases.'

PATCHOULI-LEAVES.—For 2 hales dull, greyish leaves, very broken, dusty, and of poor flavour, offered without reserve, 7s. per cwt. was accepted to-day.

QUICKSILVER.—The price from the principal importers is still 6*l*. 15*s*. per bottle, but second hands holders are slightly easier and will accept 6*l*. 13*s*. 6*d*. per bottle.

QUININE.—On Thursday and Saturday last about 25,000 oz. second-hand German bulk sold on the spot at from 12d. to $11\frac{3}{4}d$. per oz; and 5,000 oz. for December delivery at 12d. per oz. Since then there has heen little or no business in the article, the position of which may be summed up thns: Scllers at 12d.; no buyers above $11\frac{3}{4}$ per oz., on the spot.

RHUBARB.—At to-day's auctions 123 cases were offered, but these d d not include much that had not been shown before. Prices were steady on the whole, but it is not very easy to effect sales, and there is evidently little confidence in the article. The prices were:—Shensi, small orange-coated druggists' round, even pinky grey fracture, 1s. 1d.; small to bold, fair coat, half-pinky, ba'f-gr'v fracture, slightly spongy, $12\frac{1}{2}d$.; small to medium round,

dull coat, half-grey, half-dark wormy, 9d. to $9\frac{1}{2}d$. per lb. Canton, small druggists' even pinky grey fracture, round nice coat, 1s. 8d.; medium to hold, round rough coat, greyish fracture, 1s.; round and flat mixed, small to medium dull fracture and wormy, 10d. per lb. High-dried flat, small to medium dull fracture and wormy, $10\frac{1}{2}d$. to 11d.; round medium to bold fair coat, half pinky, half dark fracture, slightly wormy, from $6\frac{1}{2}d$. down to $5\frac{1}{2}d$. per lh. The price for high-dried must he described as very firm.

SARSAPARILLA.—Very little was offered to-day. For 5 serons fair *Honduras*, 1s. 6d. per lb. was asked, but the holder promised to submit a bid of 1s 4d per lb. Two bales of ordinary *Guayaquil* imported via Havre sold at 10d. per lb. Of genuine greyish Jamaica a few lots were bought in. Native Jamaica was not offered.

SCAMMONY—Of 13 cases resin of scammony offered to day, one of good quality sold at 26s. per 1b. Common varieties are very difficult of sale. Roots, which are also in plentiful supply, are held at from 27s 6d. to 30s. per cwt., according to quality.

SENNA.—Alexandrian is quite neglected, and a few lots offered to-day were bought in at from 2d. to 3d. per lb. for siftings, and 5d. per lb. for fair medium leaf. The demand for pods has also given way, and though 1 bale was bought in at 1s. 3d. per lb. it is quite impossible to get anything like tbat price. Of Tinnevelly senna 280 bales, nearly all in the importer's hands, were offered, practically the whole of which sold with excellent competition at an advance of from $\frac{1}{4}d$. to $\frac{1}{3}d$. per lb. on the ordinary and medium grades. The following prices were paid:—For good bold green leaf, $5\frac{3}{4}d$. to $6\frac{3}{4}d$. per lb.; for medium green, partly specky, from $5\frac{1}{2}d$. to $6\frac{3}{4}d$. per lb.; for small to medium green and yellowish mixed, from $3\frac{3}{4}d$. to $2\frac{3}{4}d$.; and for fair medium yellowish mixed to ordinary small blackish, from $2\frac{1}{2}d$. to 1d. per lb.

Soy.—Of 29 cases of *Chinese*, 4 sold without reserve at 11d. per gallon for fair quality.

STAR-ANISE, of which there is a fair available stock, was reported to have advanced in sympathy with the oil, and to he no longer obtainable below 67s. 6d. per cwt.; but at anction to-day 20 cases of genuine Chinese anise of fair quality sold at 67s per cwt., which shows only a slight advance.

SULPHATE OF COPPER is steady at from 14l. 12s. 6d. to 14l. 15s. per ton for ordinary brands, and 15l. 10s for choice in London. In Liverpool the quotations for good quality are 15l. per ton. f.o.b. on the spot; and 16l. per ton for the first half of 1895.

SULPHONAL.—There has been some reduction in the list-prices of some of the second-hand holders of this drug. BP in hulk offers at 10s, per lb. The manufacturers quotations remain unaltered.

The market has been abundantly supplied with Indian teas this week, but has risen to the occasion, and taken the large quantities offered at firm to, in some cases, rather stiffer raies. Tea was undouhtedly cheap, and fair to really good Pekoe Souchongs from $5\frac{1}{2}d$. to 6d. left room for an advance; but it is to be remembered that we are at the beginning of the season, with large shipments on the way. Ceylons this week have been in small supply, and next week the sales will be still lighter; but this had been anticipated, and had already sent prices up, so that the sales have gone off quietly with no further advance. Congous are steady. So far the effect of the war in the East on the London market has been remarkably little.

TEREBENE has recently been reduced in several lists. The quotation for pure, by 6 Winchester lots, is now 1s. per lb.

WAX (BEES').—Madaqascar wax is about 2s. 6d. casier, although there was a fair demand. Of about 300 packages, 200 sold at from 6l. 10s. to 7l. 2s. 6d. for fair hrown to good brigbt yellow mixed; and from 5l. 17s 6d. to 6l. 5s. for dark quality. Jamaica wax in steady demand at good prices, ranging from 7l. 5s. to 7l. 15s. for brownish to orange-yellow mixed. Australian wax, of good bright mixed colours, sold at from 6l. 15s. to 7l.; and for pale bleached Calcutta 7l. was paid. Brown bleached Madras realised 6l. 12s. 6d. per cwt.



Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume,

A Point in the Juries Act.

SIR,—Any question of privilege or light affecting one member of an organised community must necessarily command the attentive interest of all the other members. The following statement of facts is, therefore, of prime impor-

tance to all registered pharmaceutical chemists.

Finding my name included in the recently-published jury-list for the Dartford district, I communicated with the overseer, claiming exemption by the prerogative of registration as a pharmaceutical chemist. The overseer acknowledged my letter and removed my name from the list. Judge, therefore, of my surprise npon receiving, two days after the Justices had met to ratify the list—a meeting of which I had no cognisance—the following letter:—"After spending the whole of Saturday afternoon at the Court on the matter, the Magistrates came to the conclusion that you were not entitled to exemption from jury-service, and reinstated your name, which I (the assistant-overseer) had erased."

Now, if there was one thing I had learnt to helieve with the tenacity of a creed, it was that the Major diploma conferred upon the holder the right to he exempted from jury-

service.

It was, therefore, with the greatest confidence that I set the facts before the Registrar of the Society, with a request that he would advise me what further step I could take in the matter. But in his courteous reply the Registrar states that, in his opinion, "the magisterial decision is quite according to law. The exemption extends only to pharmaceutical chemists actually in practice, which you most undoubtedly are not."

As my knowledge of the law is limited, I am unable to state if the definition of a "pharmaceutical chemist actually in practice" has heen authoritatively laid down, but, failing that, I rather demur to the dictum that I am most un-

doubtedly not in actual practice.

I admit that, with an eye to the famous case of Mr. Groffin, the framers of the Act may have intended that only pharmaceutical chemists in actual retail practice should be exempted; hut most clearly the wording of the Act does not justify this unilateral construction heing placed upon it, and my experience and observation would lead me to regard the lahoratory managers of manufacturing pharmacists as, perhaps, even more fitted to bear the phrase "actually in practice" than the majority of their retail hrethren.

If the Dautford Magistrates' reading of the Act is confirmed to the confirmed to the confirmed to the confirmed to the act is confirmed to the confirme

If the Daitford Magistrates' reading of the Act is confirmed, and the claim of a pharmaceutical chemist for exemption is to depend upon his service in au open shop, then the Act is much more exclusive than the majority of chemists had believed it to be, and many pharmaceutical chemists have heen living in a fools' paradise.

The ruling which excludes me from enjoying the privilege of exemption must by a logical sequence sweep away the privilege in the case of every manufacturing pharmacist, every traveller, every teacher, and even the hospital-dispensers, for in the narrowed rendering the words "actually in practice" exclude the pharmacists in each of these classes.

To me, personally, this loss of privilege is of no great moment. As involving a question of principle, however, it is important, and opens out some novel points; and, consequently, though I do not propose to combat the reading of the Dartford Justices upon my own initiative, it seems a pity that the case should be left in its present unsatisfactory state.

Yours faithfully,

W. LLOYD WILLIAMS,
Pharmaceutical Chemist.

The Atomic Woight of Carbon.

SIR,—Mr. Caven's letter of September 29 appears to me to be curiously illogical. The acceptance of the number 6 as the number expressing the weight of the carbon-atom is (as I have asserted, and as Mr. Caven does not deny) not opposed to any known fact in chemistry.

The so-called periodic law is a very vague hypothesis, which has had its uses in stimulating the investigation of some of the rarer metals, but is utterly worthless as a piece

of evidence in favour of any atomic weight.

I entertain no doubt whatever that in the event of my satisfying chemists that the true atomic weight of carbon is 6, very little difficulty will be experienced in exhibiting that weight as quite in harmony with the periodic law.

October 6.

Yours, &c., J. Alfred Wanklyn.

Company Pharmaey.

SIR,—I am afraid that "Pharmaceutical Chemist's" plan of campaign is not practicable; hut your remarks suggest an idea which might he possible if taken in hand hy those in power and well backed up hy pharmacists as a body. Pharmacy proper is without doubt a profession, and, if lawyers and doctors can he struck off the rolls for unprofessional conduct, why not pharmacists? Should not those who go through their three, four, or five years' training, and the expense of passing their examinations, enjoy the privileges possessed by other professions?

Could not the Pharmaceutical Society obtain the necessary powers? If so, company pharmacy (as far as it concerns unqualified persons) would be a thing of the past, as the system of covering would most certainly he unprofessional conduct. Of course, it would not do to construe the conduct of trade on ordinary lines (in conjunction with pharmacy) as unprofessional, otherwise the country pharmacist would also he extinguished, for in many towns all the doctors dispense their own medicines, and supply drugs and sundries as

ell. Yours faithfully,

RICHARD H. GROVES.

Blandford, October 8.

Unqualified Pharmaeists in New York.

SIR,—I have lived in New York a registered pharmacist five years, and have a very different idea from that entertained hy Mr. F. J. Wulling. I have changed my position four times, two of the stores being owned and run by men who were not in the trade at all. One named his pharmacy after himself, seven months after was reported, and fined \$50, promising to present himself after a certain time for exam., and he was allowed to keep on until they passed him, hut it was stipulated that he must have a qualified man in the store.

The other unqualified man is in a Government office, spending a few hours every evening in the store of a friend who is a qualified man. He has opened another pharmacy in partnership with his friend, placing a qualified man there during the day, and practically running the store himself, having hoth names printed on all printed matter in connection with the husiness. These are fair examples of one-third of the New York and Brooklyn pharmacists.

New York. F. G. EARL.

Dispensing Methods.

SIR,—I fully endorse the remarks of your correspondent, Mr. M. Rushton, Hobart. It would, I think, be very absurd that the "checker" should "carefully examine every article in the prescription precisely as if he had himself prepared it." Such a rule, I suhmit, would, in case of any mistake, take the responsibility off the shoulders of the dispenser, and fix it on those of the "checker."

Then as to "observing the weights that have been used in weighing," the "checkor" must, of necessity, stand by each dispenser while he weighs out the different ingredients, and, if this is necessary, is it not equally necessary that he should "observo" and check the measurement of liquids?

I believe—and the practice I have long adopted in large dispensing establishments, both private, hospital, and work-

house—that the best plan is for the dispenser to fill his own bottles and prepare his own stock solutions, &c., and if he is up to his work he will not make many mistakes.

What, in my estimation is, or should be, a "checker's" duty and responsibility, is that he should check the weighing or measurement of any poisonous or active ingredient in a prescription, afterwards examine the mixture, pills, or whatever it may be, see that the partial that the partial that the directions are right.

Yours truly,

C. HENDERSON. ever it may be, see that the prescription is correctly copied,

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.

Creosote Pills.

The following formula for "creosote pills" has been sent to us by Mr. A. Fetchner, chemist, of Cairo, who claims the advantages over other excipients in being easy to manipulate, readily soluble in water, and no difficulty in coating :-

> Creosoti miij. gr. xij. gr. xxiv. Pulv. rad. ejnsdem ..

M. Ft. massa. Divide in pil. xij.

Mix the ereosote with glycerine in a mortar, then add the pulv. suce, glycyrrh, and rub together for a minute or two (which forms an emulsion with the ereosote); lastly add the pulv. rad. glye. and mass.

A little more powder may be added, if necessary, and by doubling the quantity of glycerine the mass will keep of a pilular consistence any length of time. Roll in finelypowdered cinnamon-bark.

SIR,—I wish to give my experience of creosote pills, which have been discussed in the "Dispensing Notes" for the last two weeks. I have had large quantities to make for a customer at regular periods for three or four years, and I tried all the following excipients with unsatisfactory results: -Curd soap, pulv. glycyrrhizæ, pulv. althææ, pulv. acaciæ, pulv. tragac. co., ext. malt. All these exude oil, no matter how much powder is used. I then tried flour, with happy results. It leaves the mortar perfectly clean, without the slightest oiliness. Its only fault is a little elasticity; but this is nothing compared to the nasty crumbly oiliness of the other excipients. The form I use is this:-

Mass with mucil, acaciae and divide in ten lots of twenty-four pills each.

think more might be made of this domestic article for awkward masses, as it is very glutinous.

September 29.

Yours faithfully, JASON. (140/26)

What is 3ij. ?

SIR,—Is it not as perfectly correct to translate " zij. ex aq. ter in die"

as "a dessertspoonful" to be taken, &c., as it is to translate it "two teaspoonfuls" to be taken, &c.?

Yours truly, KINGSWOOD. (147/10)

[Quite; but many people have no dessertspoons. For working-class customers it is better always to say "two teaspoonfuls," and in strict accuracy "a measured dessertspoonful" is the proper rendering.]

LEGAL QUERIES.

Immediate information on pharmaco-legal matters is available in "Pharmacy and Poison Laws of the United Kingdom," Alpe's "Handy-book of Medicine-stamp Duty," and THE CHEMISTS' AND DRUGGISTS' DIARY.

142/44. J. S.—It is illegal in Great Britain for anyone but a chemist and druggist or pharmaceutical chemist to conduct the retail sale of scheduled poisons.

142/30. G. C.—Whether the preparation referred to may be sold by persons not licensed to deal in spirits depends, first on whether it contains spirit, and, second, on whether the Board of Inland Revenue regard it as a beverage or a medicine.

217/10. Whitworth.—The statement was corrected early in the year. It is wrong.

Dispensing Proprietary Medicines.—A fortnight ago, in reply to a correspondent, we stated that if Fellows's Syrupwere rebottled for dispensing, the new package would require a medicine stamp. We supposed this condition was generally understood in the trade, but the statement seems to have created some astonishment.

G. C. (140/71) asks:—"Are you sure you are correct? In. the case of a prescription as follows :-

Syr. hypophosph. eo. (Fellows) 3viij. Sig.: 3j. ter in die.

Put in a plain dispensing-bottle and labelled 'The Syrup. Dose: One teaspoonful three times a day.' I fail to see the liability. Many medical men write prescriptions for smaller quantities. Thus :--

Syr. ferri hyphophosph... 3ij. Sig.: 3j. t.d.s.

is a very common prescription in this part of the country, and if your reading is right, each bottle ought to have a 3d. stamp affixed, as I charge 1s. 4d. for dispensing it.'

Bamboo (144/67) writes:—"I am in some uncertainty as to what should be done when doctors order Fellows's Syrup. Thus, a medical man in this neighbourhood frequently writes:-

I gather from your issue of last week one ought to stamp this-a most unusual and remarkable way of sending out a prescription! I should be very glad to know what is usually done in cases of this kind."

There is no doubt about the law on the subject. In his "Handy-book on Medicine-stamp Duty," Alpe says (after explaining the concession in regard to unstamped medicines supplied for dispensing):-

It is to be observed that the medicine must be dispensed as part of a medical prescription. If a medical man were to recommend a patient to take a dutiable medicine, such as maltine with cod-liver oil, or write an order for any quantity less than a bottle, the vendor must affix a stamp at the time of sale, even though he supplies a bottle labelled "For dispensing only." And, further, the regulation obviously does not extend to pills, powders, lozenges, or plaisters.

141/48. Compo.—It is legal to sell benzine in any quantity, but it may only be kept in securely-stopped bottles containing not more than 1 pint each, and not. more than 3 gallons in all may be kept by "any unlicensed person."

146/63. Tyers.—Six months' notice is usually required to be given before repaying a mortgage. Your agreement seems to be rather an exceptional one, but you had better give that notice; or, better still, as you will have to employ a solicitor you might consult him now.

148/26. Gotham writes:—"I am an unregistered man keeping a drug-store. I have a son who has passed the Minor. If he sells scheduled poisons for me in my shop under my label, am I liable to prosecution by the Pharmaceutical Society for keeping open shop, &e.?" [Yes.] "Can my son keep shop for the sale of scheduled poisons in his own name in another part of the premises (separate room and entrance), in his own interest and for his own profit?" [Yes.]

148/16. J. W.—We are not aware of any general order of the Board of Inland Revenue to the effect that any wine containing not less than 1 grain of quinine to the fluid ounce may be sold by unlicensed persons. As a matter of fact, they do allow such wines to be so sold, recognising them to be medicines; but if you are making a new preparation of the kind you would be wise to get their express authorisation before selling it.

137/46. Minton.—You will find the process of voluntarily winding up a company detailed in Jordan's "Handy-book on Joint-stock Companies," published at 120 Chancery Lane (3s. 6d.) It is quite possible to carry this through without employing a solicitor, but you would probably find it advantageous to employ one.

142/8 Blaud.—Your label for "Iron pills (Blaud)" is not considered by the Commissioners of Inland Revenue to be within the charge of medicine-stamp duty.

149/23. Alpha.—You will find the poisons provisions in force in Cape Colony and other British colonies stated in "Pharmacy and Poison Laws of the United Kingdom" (2s. 6d.), or in C. & D., December 19, 1891. You might, perhaps, get a copy of the Act from the Agent-General, 112 Victoria Street, S.W.

143/14. A. P. writes:—"I have to day received a specimen almanac for counter-distribution, and I enclose one of its pages. Would not this render most of the medicines liable to stamp-duty? The preparations are apparently held out as remedies for the diseases. If this is so, it would involve chemists circulating the almanacs in unexpected and undesirable liabilities." [We give an extract from the page:—

Medicines.	Doses.	Effects.	Diseases proper for.
Æther, Spirit of Antimonal Powder Aromatic Confection	{30 drops to 1 drachm. } 3 to 8 grains. 15 to 30 grains.	Anti-spasmodic. Sudorific. Astringent and cordial.	Cramp and flatulence. Inflamatory fever. Diarrheea.

The publication of the almanac containing this page would no doubt make all the medicines mentioned upon it (except those which are simple drugs, such as, e.g., Turkey rhubarb, Peruvian bark, &e.) liable to medicine stamp duty. The point was decided in the case of Smith v. Mason & Co. (Limited) in the High Court this year.]

MISCELLANEOUS INQUIRIES.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

N.B.—We destroy anonymous letters. We do not answer queries of the kind here dealt with by post. We ask that separate queries shall be written on separate sheets of paper.

134/35. Boots.—Lime-juiee Cordial with Peppermint.—Add a sufficiency of peppermint syrup to the lime-juice, and colour it slightly green with solution of chlorophyll or a non-poisonous aniline colour.

133/41. Dental.—Coeaine in Tooth-extraction should always be applied by subeutaneous injection. The injection is made by dissolving $\frac{3}{4}$ gr. of the hydroehlorate in 8 minims of a 2-per-cent, solution of carbolic acid. Four minims should be injected towards the interior of the root of the tooth with a hypodermie syringe, the needle of which is pushed well "home." Keop the needle in and the finger on the gum for two minutes after, then withdraw slowly and immediately press the finger over the opening, keeping it there till absorption has taken place. Repeat the operation on the other side of the tooth and wait for five minutes, to allow the cocaine to aet, before operating. If the patient is overcome by the cocaine administer a little brandy, and allow 3 minims of nitrite of amyl to be inhaled. Occasionally the alkaloid will produce very alarming effects and requires care in its use. You will find further particulars on dentistry in the DIARY for 1890. Ethyl chloride is sometimes used as a spray to produce local anesthesia, and it is supplied in sealed tubes for this purpose. A medical man who only takes the Apothecaries' qualification has the title "Licentiate of the Society of Apothecaries."

133/69. Scientia.—If you are intending to try for the A.I.C. in addition to the pharmaceutical qualifications, it would be a waste of time on your part to go anywhere else but to the Pharmaceutical Society's School, as that is the only school of pharmacy recognised by the Institute. The course there can be taken up at any time, and by joining in January you would only miss the more elementary lectures in the various subjects, and you probably have sufficient knowledge already to do without them. The laboratory course there, as you will see from the prospectus, can be taken up at any time, students following no fixed course. Write to the Secretary of the school for further information. You will also find plenty of information in our Educational Number, published September 15. The sum you mention should be sufficient to carry you through all the exams.

135/36. Lux.—Teething-powders.—It is certainly not advisable to continue to use powders which have shown signs of decomposition.

135/47. Sem. Staphisag.—Nursery Hair-lotions.—You will find full information on these in the DIARIES for 1893 and 1894, and see also reply to a correspondent on September 15.

135/15. J. Temple.—Hair-eurling Fluid.—See reply to "Minor" below.

135/16. Mentha.—Peppermint-cordial.—Ol. menth. pip., 5j.; S.V.R., Oiij.; syrup, Oxiij. Mix. The syrup is made by dissolving 10 lbs. sugar in a gallon of water.

135/42. G. K.—You will find in a recent issue a review of a German book dealing with the subject. We are not aware of any English books, except those on cookery and household management.

135/57. A. C.—Ung. Hydrarg. Ammon., like all other mercuric preparations, causes irritation when applied to tender skin or epithelium.

136/63. Keratine.—The "Art of Disponsing" gives the following directions for keratine-coating pills. Only cily excipients should be used, and the pills should be eovered with a thin layer of cocoa-butter previous to applying the keratine solution, several thin coatings of which should be imparted.

136/23. Vaselinc.—Fueus vosiculosus in the form of liquid extract is the basis of the proprietary medicine you montion for the cure of obesity.

136/27. Opoponax. — Surfeit-water. — The DIARY for 1894 gives liquor ammon, acet, as the equivalent of this preparation.

131/61. Yorks.—Storm-glass—You will find formulæ and full details in "Scientific Mysteries," published at this office, price 1s.

135/66. X.— Emulsion of Cod-liver Oil.—See reply to "J. A. G." below, and back numbers of the C. § D.

134/48. Enulsio.—Petroleum Emulsion.—See our article on Insecticides and Fungicides, August 25, 1894, page 313.

134/29.	Minor.—H	ir-e	u rler	:			Oz.
	Tragaeanth (in	powd	ler)				1
					• •	• •	1
	Glycerine		• •		• •	• •	1
Mi	x together, and a	dd-					
	Boiling water		••	• •	• •	••	23
Be	at up well, and pe	erfum	e as de	sired.			

134/57. Radix—We are unable to supply you with formula of the proprietary remedy you mention, but the following Digestive Syrup approximates very closely to it:

Aloes	 			gr. 80
P. capsic	 		• •	gr. 16
Podophyllin	 		• •	gr. 7
Liq. ammoniæ	 			āj.
Chloroform	 		• •	าก 80
S. V. R	 		• •	Ziij.
Elixir saecharin.	 ••	• •		Siss.
Aq. ad	 			3 x.

First macerate the solids in the spirit, then add the other liquids, and macerate a little longer. 3ss. for a dose.

135/19. Subscriber.—(1) You will find the following Stomach and Liver Mixture good in all respects:—-

Liq. strychninæ					5i.
Acid. nitro-mur. dil.					3ij.
Mist. gentianæ (B.P.	'67)	ad	• •	••	žviij.

Dose: A tablespoonful three times a day.

(2) The Godfrey's Cordial label requires the medicine to be stamped.

134/43. Tunor.—(1) The mixture would be better without strychnine, which few women can tolerate, especially those who are weakly. (2) Pil. hydrarg. subchlor. co. would meet the case as well as any.

135/9. J. A. G.—Cremor Morrhum:

Cod-liver oil	• •	• •		₹vj.
The yolk of 1 egg				
Tragaeanth (in powder)				gr. x.
Elixir of saecharin			• •	mxxx.
Simple tineture of benzoin	••	••		mxtv.
Spirit of chloroform		• •		Ziij.
Flavonring oils		• •		mxij.
				Z:

Measure 4 oz. of the water, triturate the tragaeanth with a little of the oil, then add the yolk of egg, and stir briskly, adding water as the mixture thickens. When of a suitable consistence, add the remainder of the oil and water alternately, with constant stirring, avoiding frothing. Transfer to a pint bottle, add the other ingredients, previously mixed, shake well and add distilled water, if necessary, to make the product measure 12 oz.

We do not reply to queries by post.

132/13. T. G.—Polish for Brown Boots.—See page 273, August 11, 1894; also page 552, September 30, 1893, and page 620, October 21, 1893; and DIARY, 1894, page 370.

132/74. J. J. M.—Stove-polish, similar to sample sent, may be obtained by making into a soft paste plumbago, in fine powder, with lubricating petroleum oil in which a very small proportion (1 in 40) of spermaceti has been dissolved. Perfume with mirbane or citronella oil.

135/51. Tan.—We know of no polish which will give a "grained" appearance to leather. The "graining" is done by means of special treatment after polishing. The polish mostly employed consists of Prussian blue, boiled oil, and vegetable black. Several coats are necessary, and the proportions of the ingredients must be varied in each coating. Your best plan would be to apply to some firm such as Day & Martin.

131/67. F. A. C.—Fluid for promoting the Curling of the Hair.—The yolk of an egg beat up with a pint of soft water or rose-water. To be applied warm, and the head afterwards washed with warm water. Or: Lime-water 1 pint, distilled vinegar ½ pint; mix. Lime-water alone is also used. See also formulæ, page 85, vol. xliv., of this year.

132/20. Subscriber.—(1) Black Beer, Dantzic, or Spruce Beer is supposed to be prepared from the fresh tops of the spruce fir, and is generally imported in small kegs from the Baltic ports and from Hamburg. Perhaps some of our readers may be able to supply the address of Richard Fisher, who you say is a maker of it. You will find a formula for "Spruce Beer" in the DIARY for 1894. (2) To Smooth the Surface of Cocoa-nut Oil, put up in penny tins.—After the tins have been filled for a few days, go over the surface of each gently with the bottom of a 2-oz. or 4-oz. test-tube filled with boiling water. Let the tube be corked, and held by the corked end with a piece of rag. Renew the water as it cools.

137/60. Compressed.—Starch is generally used.

INFORMATION WANTED.

The Editor invites, on behalf of inquiring subscribers, postcard replies to the following:—

169/94. Butter-dock seed and birch-seed: where obtainable?

110/94. "Synvitikon" (French fish-glue): where obtainable?

148/63. Makers of Foster & Crowley's patent safety-stopper for poison-bottles.

Mert Mech.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

Wednesday, October 17.

Royal Microscopical Society, 20 Hanover Square, W. At 8 P.M.

Mr. F. Chapman: On "The Foraminifera of the Gault of Folkestone." Dr. H. Stolterforth: Notes on "The Genus Corethron." At 8 P.M.

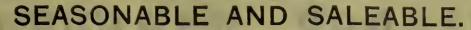
Western Chemists' Association (of London). Annual meeting at the Westbonrne Restaurant, 1 Craven Road, Paddington, W., at 8.30 for 9 P.M.

Thursday, October 18.

Chemists' Assistants' Association, 103 Great Russell Street, W.C. Discussion on "The Duties of the Pharmaceutical Society as an Educational Body." to be opened with a paper by Mr. E. H. Gane. At 8.30. P.M.

Glasgow and West of Scotland Pharmaceutical Association. Opening Address, by Dr. D. C. McVail. At 9 15 P.M.

Midland Pharmaceutical Association, at the Midland Hotel, Birmingham. Address by the President, Mr. R. Darton Gibbs. At 8 30 P.M.





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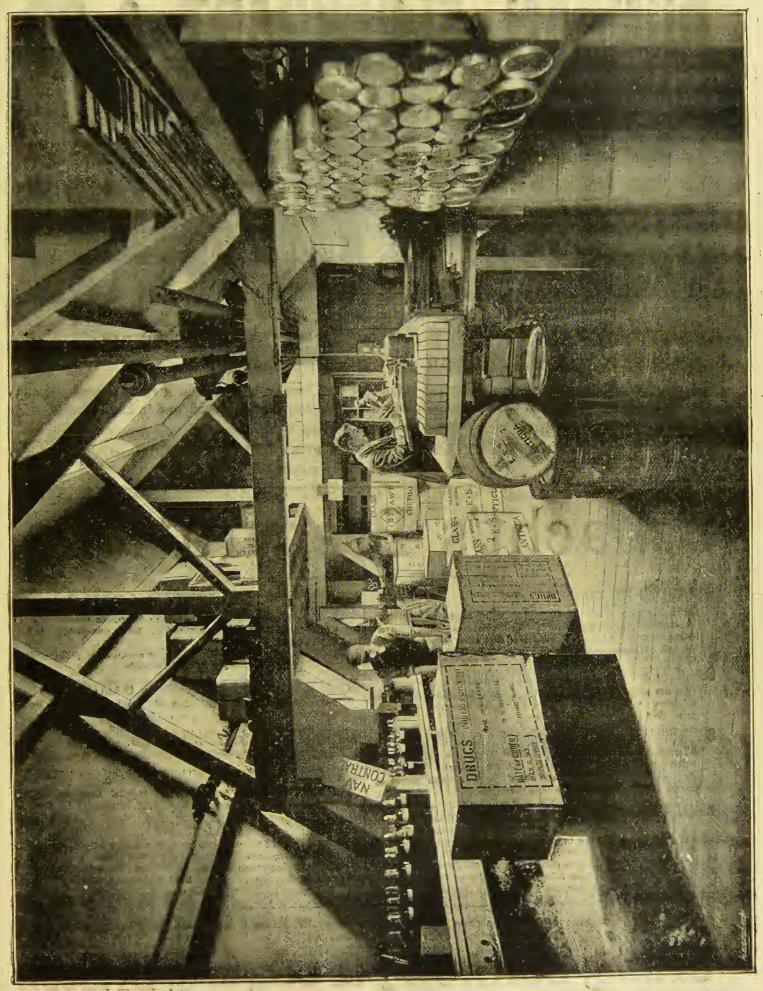


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Chloride of	Sodium	•••	***	***	***	***	'035
Moisture	•••	•••	•••	***	***		.82
Insoluble	•••	•••	944	•••		•••	nil

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Plain Black Current, old square 2/6 | Plain Black Current, rough oval 2/6

Black Current Voice (warm astringent) Black Currant and Ipecacuanha 2/6 Black Currant Cough Lozenges 3/6 Black Currant and Tannin . 3/ *Ipecac. & Morph., strength as "B.P."

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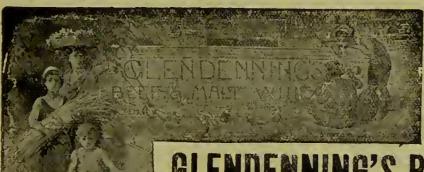
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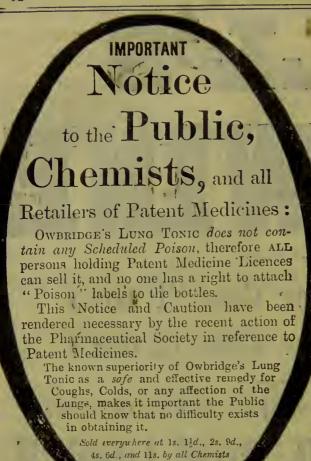
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we wish to state that the amount is one-eighth (1/8) of one grain to a fluid ounce. As there are eight teaspoonfuls to an ounce, the amount of morphine in a teaspoonful, our maximum dose, is one sixty-fourth (1/64) of a grain.

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TERMS UPON APPLICATION.

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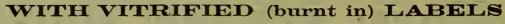
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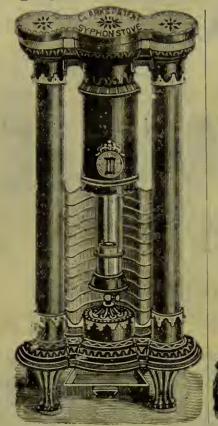
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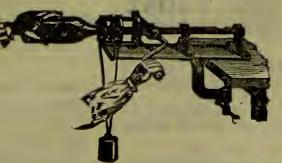
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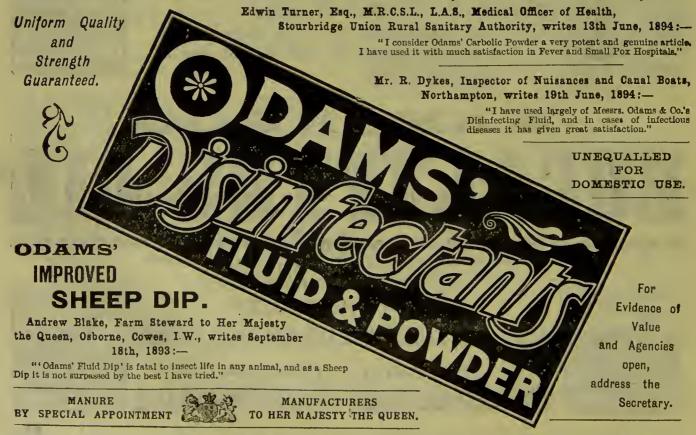
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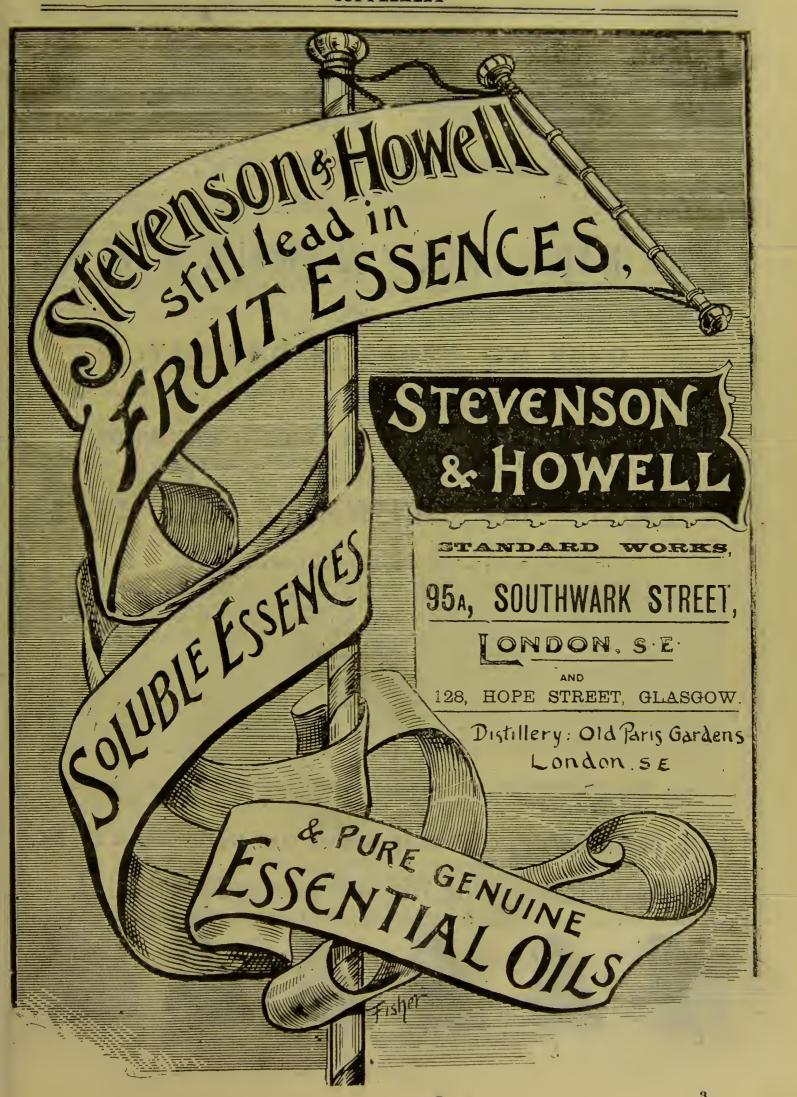
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"FROG IN YOUR THROAT" IS BOOMING IN THE U.K.

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These were the limits (as Maeaulay notes) to the heacon fires that warned of the approach of the Invincible Armada. The Invincible "Frog" has passed these, for he goes beyond Berwick far north into the Land o' Burns, whilst in the south you'll find him helping the weak chests in the Isle of Wight. You'll see him in Lynn if you go there, too; whilst he has goue far west of Milford Bay, settling first in the Isle of Man, and then on to help to cure some of the troubles of Ireland in many a spot in the Emerald Isle. You met the Armada with arms; you're meeting the "Frog" with arms, too, but they are open ones. This is not bombast, because it's true. Now to come to details. Our work is twofold:—1. To sell the "Frog" to Chemists (we're doing that as fast as we can). 2. To make it sell to the publle. Some of you know how we did this last time, and most of you will know it before this season is through. We have already arranged to make shows here and there all over the British Isles. Now we are laying out the show-making routes, and we want to fill in the spaces. There are lots of first-rate positions still open where big "booms" are going to he made. Don't wait, and afterwards make us come back on our steps to make you the show when half the season is over. If you want particulars, you will find the fullest in the pamphlet we sent you the other day. If you have mislaid it, write to Mr. Garratt, who has still a few copies left, and he will be happy to lend you one to look through. If you are a 1-gross man, with a small business, for goodness sake don't order 5 gross (we don't need telling that there are a few big men with small businesses); but if you are a live Chemist, with a good window on a husy thoroughfare, theu we can make a "boom" for you, put money in your pocket—50 per cent. on the capital you invest—and at the same time help you to a hetter general advertisement than £50 spent in newspapers would give you, for we can send about in your town or district hundreds and thousands of walking, talking advertising

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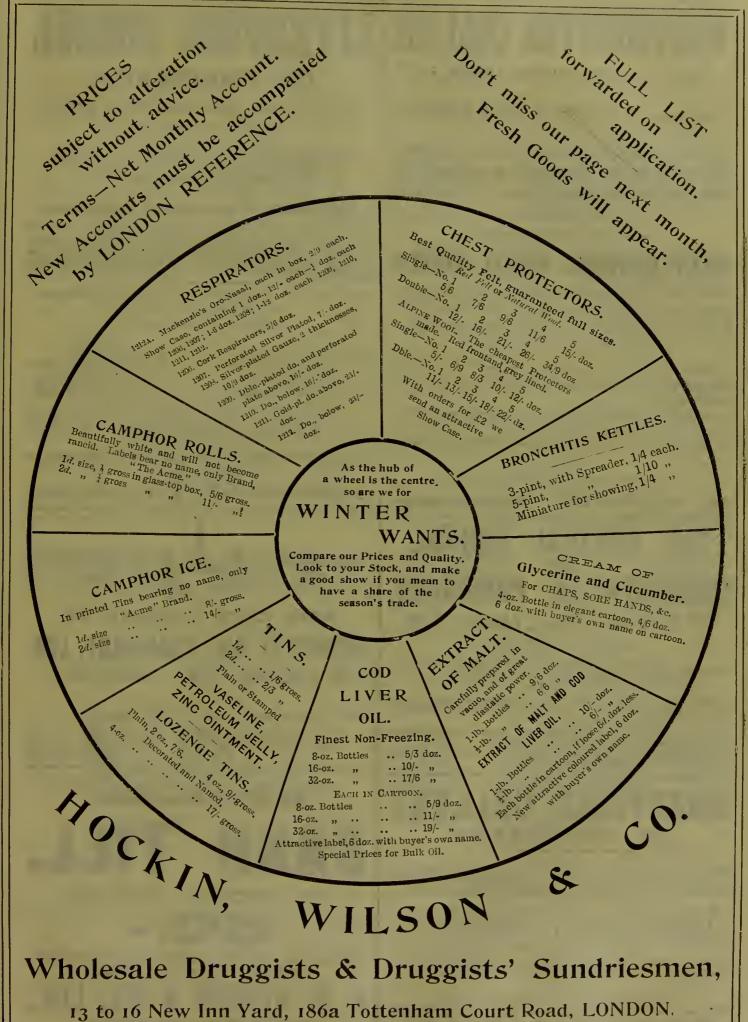
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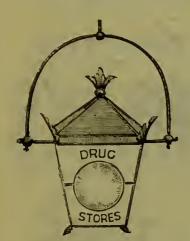
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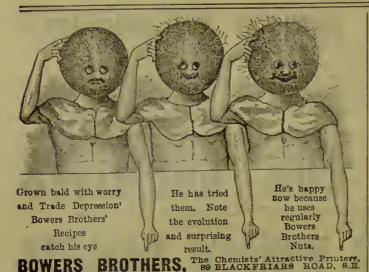
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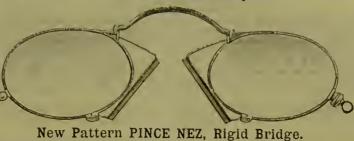
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For the immediate Preparation of Seltzer Water, Eau de Vichy, Soda Water Sparkling Lemonade, Aërated Waters, &c.



Finding so many complaints through the screws of Seltzogenee getting worn and Chetomere not screwing taps on tight enough, E. G. & Co. have patented the above improvement in their Seltzogenes, which differs materially from the numerous kinds that have from time to time been introduced, there being no screwing required, thus the machines cannot easily get out of order.

In place of Screw on Tap, there is a Clip, which is easily fastened to the Seltzogene, any Child being able to Screw the little Key at Top, and making perfectly Air-tight the Apparatus.

WEAR AND WORKING CUARANTEED. NO MORE SCREWING REQUIRED. TAP CANNOT CET CORRODED.

CONTRACTORS TO HER MAJESTY'S BOVERNMENT.

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139 & 141 Farringdon Rd., LONDON, E.G.

PUREST IN ENGLAND.

THROAT AFFECTION

LARYNGEAL CATARRH

SODA, SELTZER, LITHIA. POTASH. LEMONADE, GINGER ALE, &c.

on

Supplied in Six Dozen Cases, Carriage Paid,

R. M. MILLS & CO. BOURNE,

LINCOLNSHIRE.

Analysis, &c., Application.

West End Agent, D. WHEATLEY, 16A North Audley Street, W. City Agents, RAE & CO., 23 Fenchurch Street, E.C. And of all Chemists Wine Merchants, Hotels, &c.

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· JEWSBURY & BROWN ·

Have pleasure in submitting the following Report on the Analyses of Aerated Beverages and Mineral Waters manufactured at their New Manufactory, Ardwick Green, Manchester, by

J. CARTER BELL, ESQ., A.R.S.M., F.I.C., &c., &c.,

Analyst for the County of Chester, and for the County Boroughs of Salford and Birkenhead.

The Cliff, Higher Broughton,
Manchester, September 6th, 1894.

I have visited the Works of Messrs. JEWSBURY & BROWN, and have thoroughly investigated the different stages of their Mineral Water Manufacture, commencing with the entrance of the Manchester town's water into the Works, and finishing the examination by analysing all their manufactured products.

It would be tedious to enter into minute detail upon all the analyses which have been made, therefore it will be sufficient to state the principal things concerned in the manufacture.

The most important feature is a plentiful supply of pure water. Not content with the purity of the Manchester water, the firm aim at, and are successful in obtaining a purer water by a process of filtration, by which the organic matter is a most reduced to nil, as the following analysis of the water used in the manufacture of ALL their Aerated Waters will show:—

					Grains	s per Gallon.
Total Solid Matter at 212° F.	•••	•••	•••	•••	•••	5.3
Mineral Matter at 212° F	•••	•••	•••	•••		4.1
Loss on Ignition	•••	8+4				1.2
Chlorine	•••	944	•••	•••	•••	•8
Oxygen required for Fifteen Mi	nutes	•••			•••	• 005
Oxygen required for Three Hou	.rs	•••	•••	•••	•••	·011
Free Ammonia	•••	•••	•••	•••	•••	Nil.
Albuminoid Ammonia	•••	•••	•••	•••	•••	.0007

And to guard against the introduction of lead, which is so often found in the Mineral Waters supplied to the public, all the pipes which convey the waters are specially made of pure tin, so that it is impossible for any lead to find entrance into any of the finished products.

I have analysed all the Waters manufactured by Messrs. JEWSBURY & BROWN, including their Quinine Tonic, Lithia, Potash, and Seltzer Waters, and I find them to be well made, and containing the quantities of ingredients stated on the labels, and all are of unexceptionable purity.

(Signed),

J. CARTER BELL, A.R.S.M., F.I.C., &c.,

Analyst for the County of Chester, and for the County Boroughs of Salford, Birkenhead, &c., &c.



NEW ARTESIAN WELL AT HARROGATE.

Read Dr. ATTFIELD'S ANALYSIS, and judge for yourselves. It will please Members as it does the Directors.

ANALYSIS OF C.A.M.W.A.L.'S WELL-WATER AT HARROGATE.

Dissolved Solids.								Gra	ins per Gallon.
Chloride of Potassium	L		• • •	•••	•••	•••	***	•••	0.668
Chloride of Sodium	•••	• • •	•••	•••		•••		•••	3.213
Sulphate of Sodium	•••	•••	•••		•••	•••		•••	1.260
Carbonate of Sodium	•••	•••	•••	•••	•••	•••		•••	1.016
Carbonate of Calcium	***	•••		•••				•••	9.188
Carbonate of Magnesi	um	•••	•••	•••		•••	•••		4.697
Oxides of Aluminium		Iron				•••	***	•••	0.263
Silica								•••	1.561
Organic Matter	•••					•••			none
Total Dis	solve	ed Sol:	ids	•••	•••	•••	•••	***	22.166

ANALYTICAL DATA.—Potassium, 0 350; Sodium, 2.230; Magnesium, 1.342; Calcium, 3.675; Oxides of Aluminium and Iron, 0.263; Silica, 1.561; Sulphuric Radical, 0.852; Chlorine, 2.450; Carbonic Radical, 9.443; Total, 22.166.

June 30th, 1894.

(Signed) JOHN ATTFIELD.

From "The Chemist and Druggist" Special Summer No., July 28, 1894.

"CAMWAL WATERS.

- "We have hesitated whether to head this paragraph 'Camwal Waters' or
- "'Camwal Progress,' for both are the subject of the circular inserted by THE
- "CHEMISTS' AERATED AND MINERAL WATERS ASSOCIATION (LIMITED).
- "The Association is the most prosperous co-operative body of Chemists ever
- "founded in England, and it owes its prosperity to the sound methods on which
- "its business is conducted. Chemists are not such fools as to join an Association
- "for the sake of the good dividend merely; they must get satisfaction with the
- "goods supplied, and that is where the Association has scored."

2

BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS-ACTION SODA-WATER MACHINE.

GOLD MEDAL International Food Exhibition, 1891. GOLD MEDAL, BATAVIA, 1893.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER. NO MESS. PERFECTLY RELIABLE,

NOTE.—These Machines are not toys, but thoroughly well-made Machines, and will last many years with hard working. We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.

No. 1 Size, complete with Turnover or Syphon - filling Machine, and fitted with fast and loose Pulleys for driving by power ... Code Word (Compact) £60

Producing Capacity by Hand-power 600 doz. per day.

" Power 1,200 " "

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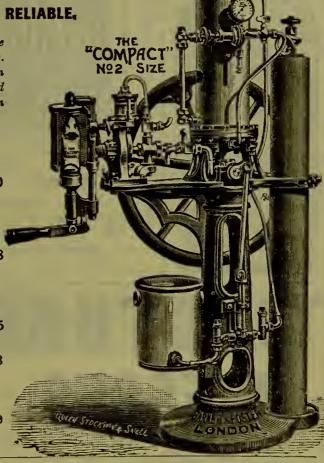
Producing Capacity by Hand-power 350 doz. per day.
,, Power 700 ,, ,,

No. 8 Size, complete with Turnover or Syphon - filling Machine Code Word (Chemicus) £35

Or without Syrup Pump to Turnover Machine Code Word (Retailer) £33

Producing Capacity by Hand-power 200 doz. per day.

In use by Leading Chemists in all parts of the United Kingdom.



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CLEAREST,

AND BEST

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PRICES ON APPLICATION.

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APPLIANGES

PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each. SELTZOGENES.

16/- each. 6/8 7/6 8/6 10/5 Including two funnels and stopper for charging.

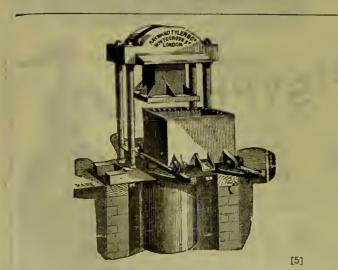
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West Australia,

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Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.



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We have had TWENTY YEARS' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. RYLAND'S "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aërated-water trade.

Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

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Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.



ORLIN AERATED WATER APPARATUS

SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aërated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

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THIS ESSENCE PRODUCES THE FINEST FERMENTED WINTER BEVERAGE IN THE WORLD.

Use your Stone Bottles during the slack Winter Scason for this magnificent preparation, the Prince of Fermented Beverages.

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It has already proved a decided success wherever introduced.

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ROLLAND'S COCA LIQUEUR.

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The best Renewer of Health is

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ROYAL PRUSSIAN



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WHATSOEVER.

STATE OFFICE—Department for Direct Taxes, Domaine and Forests v. Tepper-Laski v. Aweyden.

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ROYAL MINERAL SPRINGS

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ROYAL CAFE SAUCE, a Rich Fruity and Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly 1-pint Imperial, 42/- per gross.

Sample Bottles at 7/- per gross.

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Composed of Liebig's Extract of Beef, Extract of Malt, and

sound Port Wine.

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From the results of my Analyses of various Beef Wines I have had occasion to examine, nons have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,

Lecturer on Materia Medica in the OwensCollege, Manchester (Victoria University).

December 15, 1888.

Introduced 1855.]

ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.



One ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopeia, and free from all Chemical impurity. They will keep good any length of time in any climate.

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B. R.

Camphore, 4/1, Flor. Sambuci, 8/6; Menth. Pip., 4/1, Rose Wirgin, 10/6

The above are put up in Bottles of 1/2 lb. or 1/1b. and upwards, each of which has the Inventor's Protection Label over Cork.

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"BUSH'S SPECIALITY."

MIS is an Oil which will stand any test that is put to it, Chemical or Physical. It is absolutely genuine, not only "as received," but genuine as squeezed from the fruit, and this is more than any other house in the trade can conscientiously Many dealers are contented with buying so-called guarantee. "pure" Essence of Lemon through London Agents, and they are entitled to sell their purchases for "pure," yes-pure as they get it! But this does not satisfy us. We insist not only on supplying genuine as received, but we want to see it made, and that can only be done by manufacturing it ourselves; then we know what we are offering; seeing is believing. No really genuine Oil Lemon can be purchased at the prices usually paid by the home houses; they have not the courage to pay the price, and if they did it is doubtful even then whether genuine would be supplied, for the Italians do not believe the English market requires or understands pure Essence. This is surely proved by the fact that when the Messina makers discovered that we were really shipping the virgin article our manager was waited upon by several of the larger houses, crying "Bush's are going to ruin the trade; the English have never had pure Essence and do not know what it is." We cannot tell what has happened to their trade, but we know we have tripled ours. Now, the nose and mouth are the two most reliable testing apparatus. Take a lemon, press the peel backwards, and then squirt some oil out on a piece of blotting paper; then moisten another piece of paper with a few drops of the sample to be examined and compare. We have no hesitation in saying that our Oil will always be pronounced

THE BEST.

Telephone Number, 1852.

Telegraphic Address-CHEMICUS LONDON. ADVERTISERS' AND BUYERS' REFERENCE LIST AND INDEX TO ADVERTISEMENTS.

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Tunbridge & Wright

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[A paper dealing with the value and uses of Emol-Keleet was read by the President of the Dermatological Section at last year's meeting of the B.M.A., a report of which duly appeared in the medical journals at that period. We shall be pleased to send specimens of the new product to medical men on request.]



specially to the attention of the profession until the last meeting of the British Association, at Newcastleon-Tyne, when an exceedingly interesting paper was read during the session of the Dermatological Section, hy the President, Dr. Allan Jamieson, of Edinhurgh. The interest aroused by the therapeutic notes given in his paper by this distinguished authority on skin diseases hrought Emol-Keleet prominently into view, and a hrief recapitulation of the points of the paper referred to may he useful. It was shown that,

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The Chemist & Druggist SUPPLEMENT. >

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SATURDAY, OCTOBER 13, 1894.

Partnerships Situations Vacant Situations Wanted Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

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Of advertising in this Supplement should be kept in mind by Transfer Agents and Valuers; by Wholesale Houses and Contract Agencies; by Pharmacists desirous of selling Businesses, or of buying them; by those who want Assistants, or who are seeking Situations. For all such it is the medium which gives the smartest results, and its unique method of circulation has secured for it a surprising popularity. Space for displayed advertisements can be obtained on application to the Publisher, 42 Cannon Street, London, E.C.

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stock; locs-up pharmacy, &c.; price £830; full particulars on application.

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house; greater part of rent let off; price £250, or valuation.

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Town Traveller; Druggists' Sundries; a sharp, energetic young man is wanted; one with a connection preferred; full particulars, by letter only, Mr. Walter, 11 Fentiman Road, S.E.

CHINA.—Good opening for a qualified well-experienced man of about 25; good salary; short hours; furnished quarters and passage paid. Apply to Dakin Brothers, 87A Leadenhall Street, E.C.

PILL. MAKERS.—Wanted, a practical man well up in the manufacture of Coated Pills and Tabloids by modern machinery. Address, Pilula," c/o 163 Queen Victoria Street, London, E.C.

ASSISTANT to Manage a Branch, Light Retail and Prescribing; or with a view tn purchase: send references, age, height, and salary required (enclosing carte). Griffith, Chemist, Canterbury.

MARTIN MAGOR, Pharmaeis*, Birmingham, has vacancy for two Assistants; Minor qualification; men well up in Stores trade preferred; state references, height, and salary required (outloors).

WANTED, qualified Junior Assistant for brisk country trade, chiefly at Dispensing-counter; bours moderate; knowledge of Photo trade preferred. State age, salary, and references to S. J. Coley, Chemist, Stroud.

WANTED, a Junior Assistant; aged 20 to 22; accustomed to a goodclass business. Apply, with full particulars as to experience, age, height, salary required, and enclose carte, to 11. S., 65 Western Road, Hove, Brighton.

FIRST-CLASS opening in English Chemist's in Japan, for qualified Assistant, about 25. with really good London experience; sbort bours; liberal salary. Full particulars to Dakin Brothers, 87A Leadenhall Street E.C.

ASSISTANT; not under 23 years of age; for Dispensing and Light Retail business; qualified preferred, but not essential; indoors; state age, height, salary required, and all experience, to John Miller, 4 Victoria Road, Brighton.

WANTED, an active, obliging Assistant (unmarried); good Preecriber, strictly honest, and not afraid of work; outdoors; state salary and full particulars, age, &c. Apply, Henry Ronchetti, Chemist, Thornaby-on-Tees.

WANTED, a Junior Invoice Clerk: only one with previous experience eligible. Apply, personally, between the hours of 12 and 1, at Messrs. Gale & Company, Wholesaie Drnggists, 15 Bouverie Street, Fleet Street, E.O.

WANTED, qualified man, as Manager and Buyer of Drug Department lu high-class Stores; none need apply who have not had Store experience. Apply by letter, stating age, salary expected, and all particulars, Cater, Stoffell & Fortt (Limited), Bath.

WANTED, an experienced and well-recommended Indoor Assistant at about October 20 next, with Minor qualification preferred, and not under 23 years of age. Apply or address, Mr. Beere, 23 Hampstead Road, near Guwer Street Station.

WANTED, at once, qualified or registered Assistant: Extractor preferred; to live on premises and manage small businesss in S.E. London; salary and commission to good man. Apply, with full particulars, H. S., 75 Holland Road, Kensington.

MPROVER wanted in a small seaside town: one who has served not less than eighteen months or two years; light business; comfortable home, and ample time for study. Address, "Verax," c/o Messrs. Woolley, Sons & Co., Victoria Bridge, Manchester.

RELAND.—Wanted, Traveller, calling on Chemists, Surgeons, &c., to take orders ou commission; small samples; liberal commission; only suitable for those with well-established connection. Write, 230,7, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

QUALIFIED Assistant, accustomed to good-class trade and Dispensing; one seeking a permanency preferred, and with a knowledge of Photography, but this is not essential; indoors. Send photo and full particulars to Mr. Parker, Pharmaceutical Chemist, Searborough.

WANTED, an Improver, in a small market town; a brisk trade is done, and another assistant kept; no Sunday business; hours light; or an Apprentice would be treated with; terms easy. Horace Ridley, Chemist and Stationer, Member of the Pharmaceutical Society, Princes Risborough, Bucks.

QUALIFIED Assistant wanted, for Cash business in scaport town; good prospects of promotion to an able, energetic, and trustworthy man. State salary required (outdoors), whether married or single, and all other particulars, with photo, to "Chemicus," c,o Messrs. Wright, Layman & Umney, 50 Southwark Street, S.E.

WEST London Hospital, Hammersmith Road, W.; Assistant Dispenser with Minor qualification wanted; aged not more than 23 years; hours, 9 to 6, and until completion; salary as arranged; candidates must attend Monday, 22nd instant, at 10.30 A.M., and produce certificates of qualification and most recent testimonials. R. J. Gilbert, Secy. Supt.

SHARP, unmarried Assistant wanted (S.E. London), to put up stock and assist at front counter; one seeking permanency preferred; balf-day holiday weekly; Sunday duty every alternate Sunday evening; no one need apply whose references will not bear investigation. Write, 230 24, Office of THE CHEMIST AND DRUGGISF, 42 Oannon Street, E.O.

LIGHT PORTER and Packer required (for N. dis'rict): an active, bright, strong young man; accustomed to pack goods and deliver by tricycle; must know Citj well: wages to commence £1 per week; abstainer preferred; none need apply whose character will not bear strictest investigation. "Monarch," Office of The Chemist and Druggist, 42 Cannon Street, E.O.

TRAVELLERS.—Fletcher, Fletcher & Stevenson require the services of two or more competent representatives for the country; preference given to gentlemen practically acquainted with Fletcher's Concentrated Liquors, and convinced by personal experience of their unique value; applicants will please give full particulars as to present and past engagements, connection, ground covered, average expenses, &c.; photographs and stamped envelopes net required; first-rate men representing one other good frim would find this an opportunity of doubling their incenses. Apply, by letter crly, Neith Lordon Clemical works, Holloway, Lordor, N.

SITUATIONS OPEN-Cont.

QUALIFIED Assistant wantel; age no object; indoors. Apply, 277 Beresford Street Kensington.

SMART Assistant; about 23; indoors; must be up to the modern cash system; none others need app'y. Full particulars to L, 8 Norfolk Road, St. John's Wood, N.W.

POME, for the searon, November 1st to May 15, 1895, an Assistant, about 24, Minor, with good Dispensing experience; salary 200 lira per month (outdoor); 150 lira travelling expenses at end of term. *J. S. W., 101 Whitecross Street, E.C.

WANTED. an active Assistant for the Counter, and to assist in Dispensing; qualified preferred. Reply, with full particulars, enclosing reference and salary required (outdoors), to James Stewart, 389 High Street, Cheltenham.

ASSISTANT for Bombay; must have passed Minor, had country experience, and not be more than 24 years old. Apply, stating full particulars, in confidence, to "Bombay," c/o Hodgkinson, Prestons & King, 81 Bishopsgate Street Without, London, E.C.

MMEDIATE, qualified energetic man, with small capital, view to succession; month's trial with moderate salary; hours 8.30 to 10; one evening from 4; good chance for Prescriber, doing £350; very reasonable terms. Apply, H., 134 High Holborn, London, W.C.

GENTLEMANLY Assistant; indoors; not under 23 years of age; accustomed to Dispensing, Prescribing, Extracting, and usual Country Retail; must be thoroughly trustworthy; 1 only kept; good references indispensable; state age, height, salary required, and usual particulars, with recent photo (to be returned). Apply, A. Worts, Chemist, Harwich, Essex.

Boots (Limited) have a vacancy for an experienced qualified Chemist at an important branch; must be a smart and able Manager, and a thorough business man; liberal terms; also a qualified man accustomed to brisk trade and used to Agricultural business; state age, experiences, references, and salary required (outdoors). They will also be glad to register names of suitable qualified men who are open to treat for permanent situations, as they have from time to time vacancies in either sharp town trade, good first-class Dispensing or Agricultural trade; must be energetic, trustworthy, and have several years' good experience; good prospects for young men capable of taking charge of a branch when required; no Sunday or night duty; full half-holiday weekly. State particulars of age, experience, salary required (outdoors), to Boots (Limited), Nottingham.

SITUATIONS WANTED.

1s. for 12 words; 6d. for every 6 words beyond.

AS Assistant; 6 till 10; salary 10/-. X, 32 Farrant Street, Pad lington.

PART-TIME (London) at once. T. A. Harrison, North Street,

JUNIOR: 6 years' experience; good references. Fynn, 44 High Street, Sittingbourne.

CCUM; disengaged; qualified; 27; best references. H., 13 Peter Street, Yeovil.

PART time; 6 years' experience; highest references. Last, 136 London Road, lpswich.

Assistant in good-class business; qualified; age 26. "Minor," 175 Marylebone Road, N.W.

JUNIOR; disengaged; 22; outdoor. S. Hellilay, 2 Portland Street, Gillygate, York.

A SSISTANT: 26; qualified; good references. H. C., 102 High Street, Kungsland, N.E.

JUNIOR; 20; London preferred; time for study. Guy, West Street, Chipping Norton.

A SSISTANT, 24, for 3 mouths' engagement. Irvine, 120 Kennington Park Road, London.

JUNIOR: 19; well recommended. C. V., 1 Victoria Villas, High Road, Gunnersbury, W.

JUNIOR: 20: tall: 3 years' experience. Jones, 50 Carneddi Road, Betherda, North Wales.

LIGHT Porter; 19: knowledge of drugs; 4 years' experience. Lambert, Fouldham, Norfolk.

OCUM-TENENS or Temporary Assistant; 23; qualified; abstainer. Dealve, Tavistock, Devon.

PART-TIME; qualified; best references. Hughes, 55 Crewndale Roud, Camden Town, N.W.

WEST or South England; qualified; 23; tall. "Theobroma," 30 Brook Street, Tavistock.

JUNIOR; 21; qualified; excellent references; in or near Marchester preferred. Hewitt, Dukinfield.

CUM-TENENS or Part Time; disengaged; excellent testimoainls. Edgson, Chemist, Forest Gate.

ANAGER; qualified; 27; outdoors; married. "Alpha," 1 Eekstein Road, Clapham Junction.

A SSISTANT or Locum; disengaged 15th; aged 25. Address, Smith, Oreton Villa, Grange-over-Sands.

TALY or S. France; season engagement wanted; experienced. "Minor," 64 Whitechapel, Liverpool.

A SSISTANT in Wholesale, or partnership in small Business. J. O., Cigar Divan, 38 Broadway, Ealing, W.

JUNIOR; tall: 201; experience desired in good-class business. "Junior," 43 Arthur Street, Derby.

ASSISTANT; 22; disengaged; London preferred. "Antipyrin," 61 Trinity Square, Borough, S.E.

ASSISTANT; 25; West-End experience; discngaged. "Student," 6 Kingsgate Street, Holborn, W.C.

CUM, Manager, Dispenser; qualified; married. "Creta," 2 Midgate Buildings, New Road, Peterborough.

QUALIFIED Manager or Assistant; married; 23; good references, Address, "Phenol," Ripley, Derby.

ASSISTANT: 24; experienced; good references. "Extractor," 36 Godolphin Road, Shepherd's Bush, W.

JUNIOR; 20: 4 years' experience; D'spensing, Retail, and Photography. F. R., Medical Hall, Barmouth.

AT once; London or country; 24;5ft. 7 in. L., Office of The CHEMIST AND DRUGGIST, 42 Oannon Street, E.C.

ASSISTANT; 23: 5 ft. 9 in.; qualified; in good-class Dispensing business. Cole, 261 Lordship Lane, S.E.

A SSISTANT or Dispenser; ont-doors; London; experienced; 31. B., 107 Robert Street; Albany Street, N.W.

ASSISTANT; qualified; would like outdoor situation; age 26. "A.," 3 Wyndham Street, Bryanston Square, W.

A SSISTANT: outdoors: 25; good experience, including London; disengaged. Coverdale, Wellowgate, Grimsby.

JUNIOR; qualified; 22: City or West-End; outdoors; 6 years' experience. Wardley, 27 Valmar Road, S.E.

ASSISTANT; 23; good experience London; outdoors; disengaged. C., 1 Emily Street, Westbourne Square, W.

ASSISTANT: good experience; disengaged; excellent references. H. Taylor, Hill Top, Netherton, Huddersfield.

ASSISTANT: qualified; 23; 7 years' experience, London included; London. Wicks, 74 Hardres Street, Ramsgate.

MPROVER; 3 years' experience; accustomed to Agricultural bosiness. Apply, Seth Harry, Chemist, Okchampton.

ASSISTANT; 22: discngaged; 8 years' experience; permanency desired. S. F., 24 Washington Street, Liverpool.

JUNIOR; aged 22; height, 5ft, 10 in; 8 years' very good experience; excellent references. "Delta," 71 Peel Street, Hull.

JUNIOR: 23; London or country; good references; disengaged. "Radix," 128 Westminster Bridge Road, London, S. E.

SURGEON'S Dispenser; London experience; aged 27; unqualified; disengaged. "Statim," 69 Victoria Street, Gloucester.

As Assistant in good Dispensing business; Major; 23; West-(n1 exporience. A. A. Gillitt, 1 Oxford Street, Wellingborough.

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SITUATIONS WANTED—Cont.

JUNIOR: 21:44 years experience; good class Dispensing; where two are kept preferred. "Disengaged," 9 New Road, Stourbridge.

BRANCH Manager or Assistant; qualified; 24; disengage1 beginning of November. D., 5 St. Mary's Square, Paddington.

As Assistant; experienced; salary 30%; highest references. Address, "Sulphonal," 13 Courtnell Street, Talbot Road, Bayswater.

N or near London; Ass'stant; nupualified; 5 ft. 7 in.; 8 years' experience. Apply, 'Radix,' 131 Portland Road, Newcastle on Tyne.

MPROVER; London preferred; time for study; no salary required. Wellington, C. K., c o Mr. Wellington, Chemlst, Fowey, Cornwall.

MANAGER: registered; middle age: married; no family: good references. G. P., c/o Mr. Slelght, Chemist, 265 Hnnslet, Leeds.

ANAGER or Senior; in good class business; qualified; good experience; 28; married; abstainer. 35 Newcomen Street, Relear.

UNIOR: tall; light Retail and Dispensing; end of October; good dispenser; excellent references. Tindale, 107 London Street, Reading.

WHOLESALE.—Town Traveller, or position of trust; wholesale and retail experience; permanency. Brooks, 21 Denver Road, Amhurst Park, N.

A SSISTANT: 26; unqualified: 8 year; experience, London and country; good references; outdoor. B., 32 St. Maur Road, Fulham, S.W.

QUALIFIED Assistant or Manager; age 26; 9 years' good experience, London and coun'ry; Sonth Coast prefeired. "Chemicus," Clynderwen, R.S.O.

ASSISTANT; 23; tall: Bristol or West of Eugland preferred; good experience and good references. C. Lowe, Clevedon House, Llandrindod Wells.

A SSISTANT; qualified; 7 years' experience; disengaged; excellent references; Loudon preferred. Ruxton, 24 Ravensdon Street, Kennington, S.E.

PARIS.—Major; aged 22; with some knowledge of Freuch, desires situation in France, for six months or longer. Apply, X., Looker-on Office, Cheltenham.

DRUG — La³y passed Preliminary desires to go as apprentice; premium; Belfast preferred. 225/36, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

A SSISTANT; qualified; age 126; height 5 ft. 8 in.; good experience; disengaged. 232 24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A CHEMIST wishes to recommend a lady (34) as Housekeeper or Companion to invalid; thoroughly domesticated; foud of children. Address, A. P.S., Louth, Lines.

JUNIOR; 21: excellent references; part time or otherwise; London or suburbs preferred. "Disengaged," Office of The Ohemist and Dauggist, 42 Cannon Street, E.C.

ENCAGEMENT wantel; Manager or Assistant; experiencel; excellent references; disengaged. 224/21, Office of THE CHEMIST AND DRUGGIST, 42 Cauuon Street, E.C.

MANAGER; qualified; 43; 5 ft. 11 in; single; special all-round experience, town and country; abstainer. "Provincial," 13A Broad Street, Golden Square, London, W.

As Manager in or near London; well recommended; steady and of good business habits; age 30; qualified; discugaged. Jackson, 3 Cursitor Street, Chancery Lane.

ORNWALL or London.—Junior; 20; 5 ft. 6 in.; 5 years' experience; good references; gentlemanly; obliging. H. N., c/o Mr. W. S. Steeples, Chemist, St. Austell.

TRAVELLER, calling on Dectors and Obemists, wants additional Agency. State terms offered, "Somerset," Office of The Ohemist and Druggist, 42 Cannon Street, E.C.

JUNIOR.—Situation wanted (ontdoors) in the South of England or the Channel Islands; aged 21; tall and of good appearance. Address, 2011th." 149 Duke Street, Liverpool.

OCUM-TENENS and Temporary Manager; country preferrol; qualified; experienced; at a ly and reliable; highest references. "Extractor," 23 Florence Road, Lonion, S.E.

A S Marager of Branch or otherwise. 1, 3 St. John's Square, Carduff.

DART-TIME; 241; good references. Edwards, Llaufair Hall,

A SSISTANT; 23; first-class experience. H., 3 Eltham Road, Lee

JUNIOR: 23: part-time; South-east preferred. Andrews, 12 Colubrook Street, S.E.

QUALIFIED Manager or Assistant; 24; 9001 references, E. Williams, Chemist, Falmonth.

A SSISTANT; aged 23; 8 years' good experience. Christopher, Taynes-field House, Steaford.

OUTDOORS; London; 23; Minor and Hall. State terms, "Rex," 8 Arthur Street, W.C.

DISPENSER, part-time; S.E. or E. preferred; aged 24. E. P., 23 Mcsslca Road, Penge.

PART-TIME, qualified (23); 6 years' London experience. "Studens," 22 Markham Square, Chelsea.

JUNIOR Assistant; 21; good experience; highest references. Sinclair, 12 Doughty Street, W.C.

SOUTH FRANCE.—Qualified; .0; first-class experience. J. Oswald, Post Office, Bowdon, Ches.

JUNIOR; 21; good reference; London, West-end (outdoors), or Italy preferred. Bell, Margate.

E VENING employment, Dispensing or Counter; experienced. Gosnell, Steele's, Ludgate Arcade, E.C.

A SSISTANT; 23; till; good reference; outloor; 7 years' experience. Smith, 21 Cone Street, Ludlow.

OCUM or Manager by an M.P.S.; West end experience. P.S., 51
Rylett Road, Shepherd's Bush, W.

A SSISTANT; 7 years' experience; good references; aged 23. "Andix," 31 Peckham Rye, S.E.

CCUM-TENENS, or Branch; Registered; disengaged Thesday. "Ohemist," 32 Lanrel Grove, Penge.

PART TIME.—Junior, 20, disengaged, 5 years' experience in large centre. C/o Padley, Chemist, Wooler.

OCUM-TENENS; qualified; long experience; highest references.

"Chemist," 8 Church Street, Salishury.

AS Assistant; experienced; ontdoor preferred; town; part or full time. H. G., 52 Ashmore Road, Paddington.

AJOR; good provincial; short Continental and homocopathic experience. "Analyst," I Spilshy Road, Boston.

A SSISTANT; 10 years' experience; disengaged; height 5 ft. 11 in.; aged 27. Thompson, Rosary Corner, Norwich.

PART-TIME; unqualified; London; outdoors. 234/2. Office of THE OHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A SSISTANT; aged 26; good references; Dispenser, Prescriber, and Counterman. "Drugs," Catwick, Skirlaugh, Hull.

A SSISTANT; \$4; good experience; Prescriber; suburban situation preferred. "Chemicus," 552 Kingland Road, N.E.

DISENGAGED; 23; unqualified; London; ontdoors; Midland experience. 39 Devouport Road, Shephord's Bush, W.

ASSISTANT; qualified; good references; aged 26; disengaged. "Medicus," 12 Handforth Road, Brixton Road, S.W.

MANAGER.—Assistant, 24, qualified; 9 years' all-round experience, "Fidelis," 67 Stockton Street, Moss Side, Manchester.

UNQUALIFIED; competent; good all-round experience; 25; conntry preferred. R., 15 Liverpool Street, Walworth.

A SSISTANT; 22; qualified (outdoors preferred); good references. J. H. Campbell, Timber Grange, Brocklesby, Lincolnshire.

A SSISTANT; qualified; 23; excellent references; disengaged; South preferred. J. K., 56 Myddelton Square, Pentonville, E.O.

SITUATIONS WANTED-Conta

SMART Junior: 22: 51 years' experimne: London (ontloors) preferred. "Quereus," 39 Grafton Road, Holloway, N.

BRANCH Munger of Assistant; 30; good varied experience and references. Geo Ried, Mr. Wray, Corporation Road, Grandby.

A SSISTANT or Manager; competent; 20 years' Oity and West End experience; excellent references. M., 217 Makwood Roul, S.E.

N London; 4 years' good a'd-round experience; time to attend evening class; disengaged November 24. E. S., 64 H ga Street, B. askpool.

PART-TIME or time for study; London, S.E. preferred; good dispensing experience, "Poison," 25 Princes Square, Kennington,

AS Assistant or Dispenser; Major; age 27; London outloot preferred. 233/29, Office of The Ohemist and Daugeist, 42 Ohndon Screet, E.O.

LOCUM-TENENS; qualified; thoroughly experienced; in or outdoor; disengaged. X. Y. Z., 2:1 Seven Sisters Rual, Finsbury Park, N.

JUNIOR; 22; Roman Catholic; 7 years' experience; permanency preferred; would not mind going abroad, "Pax," 43 York Stiect, Jarrow.

QUALIFIED: 8 years' experience; aged 23: re-engagement; Who'e-sale or Retail; London; outdoors preferred. G. C., 155 High Street, Lewisham, S.E.

EMPLOYMENT wanted for a few nights weekly; Stock and Counter; disengugel 6 pm. M. E., 83 Southampton Street, Camberwell, S.E.

CAPE COLONY.—Assistant going to Ours desires engagement: good experience; first-days references. "Stain," 551 Cheeth in Hill, Manchester.

AS Junior or Dispenser to a Doctor: azel 21; height 5 ft. 11 in.; tooth extractor; good references. R. T. W., e/o Clay, Dod & Co., 52 St. Ann Street, Liverpool.

Cham'st, Pateley Brilgs.

ASSISTANT in high-class business; unqualified; age 30; obstainer excellent Dispeuser and Counterman. 233/34, Office of The Chemist and Dauggist, 42 Cannon Street, E.C.

DISPENSER or Assistant; long and varied experience; Institution, Private, Retail - capable Prescriber; first class references. A. E., 98 St. Thomas' Road, Finsbary Park, N.

BIRMINGHAM District; quick business; experienced counterman; age 22; references; permanency. "Energetic," Office of The Chemist and Dru 1918r, 42 Cannon Street; E.C.

WANTED, as tuntion as Assistant or Dispenser, abroad or on board ship; unqual fiel, but highest references and first-class experiencence; aged 23. Page, The Firs, East Dereham.

LOCUM-TENENS or otherwise; now disengaged; total abstancer; age 26; London and country experience; fluent in Freuch and Continental pharmacy. "Mediator," 79 Victoria Street, S.W.

EXPERIENCED Assistant, of good appearance and address requires situation; well up in dispensing; can prescribe, and extract teeth; references. Statim, c/o Mr. Daly, 2 Barony Street, Edinburgh.

MANAGER, or otherwise, to Branch or Widow; temporary or permanent; qualified; experienced; reliable Prescriber and Extrac'or; best references. "Chemist," Cambridge House, New Cross, London.

RETIRED Chemist of position desires situation as Traveller or Collector, Manchester district, 3 or 4 days per week; salary secon lary importance. 226,3, Office of The Chemist and Druggist, 42 Cannon Street, E.C.

A SSISTANT; qualified; married; age 25; requires permunent situation; outdoors; in a good class Pharmaey; near London preferred. R.R. Page, 159 Shirland Road, Maida Vale, W.

WHOLESALE; Drugs, or San'ries, or as Town Traveller: connection: experienced; permanency. "Thomas," Office of The Chemist and Durggist, 42 Cannon Street, E.C.

A SSISTANT; varied Retail experience, Dispensing, Tooth extracting, Photographic; aged 31; height 5 ft. 7 in.; married; unqualified; permanency. Mollard, 7 Paradise Square, Oxford.

A SSISTANT, with view to pur hase, in high class Dispensing Business, returning £2,000 about; excellent references. 230/22, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SHORTHAND and Typist; advertiser with considerable experience in wholesale drug-house, is open to an engagement. "Phonetic," Office of The Chemisi and Drugodsr, 42 Cannon Street, E.C.

To Manufacturers of Soluble Essences, Whole ale Druggists, Similities, &c. - Energetic young man, total abstainer, seeks situation as Traveller; good references. Apply, Harrison, 48 St. John's Road, Scarbacough

DISPENSER.—Lady with the Minor qualification of the Pharmacentical Society, desires appointment either as Dispenser to a hospital, Assistant, or Dispenser and Bookeeper to medical man: either in or outdoor. Testimonials and references on application to 219/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

TRAVELLER (Town). - Gentleman, age 28, City and West-end Retail experience, wishes to represent a good firm; Drugs, Printing, or Sundries: gentlemanly appearance, and thoroughly acquainted with the drug-trade; highest references as to hones; y and business abilities. 229/27, Office of The Chemist and Druggist, 42 Cannon Street, E.O.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

KAPUTINE CO. (LIMITED), are prepared to Advertise in Chemists' Lists or Almanacks. Quote prices to Kaputine Works,

E SPOIR RILLS (E. A. HOPE & CO) are prepared to Advertise in Carmist 'Lists and Almanacks. Send spec'men and quote price; also for stitching in Bills. E. A. Hope & Co., 6 Dorset Street, Fleet Street,

CEORGE CULLING, the Northern and Irish representative of Messrs. H. Gibertson & Sons, Druggists' Sundriesmen, London, begs to inform his friends that he has removed from Park Grove, Levenshulme, to Thurso Villas, Albert Road, Levenshulme, Manchester.

WANTED, Agencies for Australasia.—A gentleman, having a large connection amongst Chemists, Manufacturers, and others in the Australasian Colouies, is open to accept Four Agencies. A Wholesale Drug Agency essential. Address, "Tasmania," c/o The Chemist and Druggist of Australasia, 93 York Street, Sydney, N.S.W.

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STUDENTS! Write to-day for a "Guide to Examination," gratis and post free, giving the best advice how to prepare. Knotty Points in Latin Grammar, 1s. 6d.; Cæsar Simplified, 1s.; Metric System Simplified, 1s.; How to Write an Essay, 3d.; Equations Simplified, 1s.; Notes on Dispensing, 1s., post free. Mr. J. Tully (Hills Prizeman), Chemist, Hastings.

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ANOTHER large cousignment of Chemist Fittings, including Ranges of Drawers, with Solid Mithogany Fronts, Crystal Cnt Knobs, Bevelled-edge Labels, Spanish Mahogany-fronted Counters, fitted with drawers at back; also Plate-glass Fronted ditto, massive Dispensing Screens, Plate-glass Counter and Wall Cases, Window Enclosures, and everything appertaining to the Trade. We have au immense variety of New Fittings (all the latest designs)—Chemists commencing Business should call and inspect our Stock before Buying. Experienced Fitters sent to all parts of the country.

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VETERINARY COUNTER PRACTICE. 2s. 6d., by post 3s. 9d.

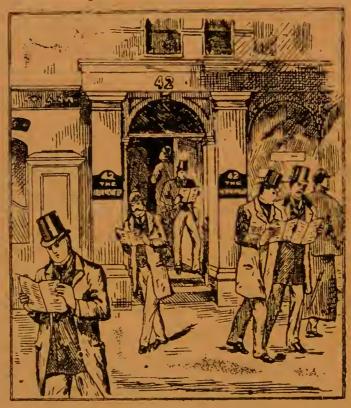
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A copy of the Supplement to THE CHEMIST AND DRUGGIST, containing advertisements of situations open and wanted, businesses for disposal, &c., may be had free on application at the publishing office, 42 Cannon Street, on Friday mornings, or will be sent by post on receipt of a stamped addressed newspaper-wrapper by first post on that day. It is the recognised medium of communication between Employers and Assistants, Buyers and Sellers of Businesses, &c.